MAY
09

C-Bus technical selection guide

CLIPSAL®

by Schneider Electric

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Introduction

Clipsal, a brand of Schneider Electric, is dedicated to supplying end-to-end building management and integrated control with the products, solutions and programs to help meet customers expectations. Utilising the Schneider Electric product basket, complete end-to-end solutions are possible with products catering for any type or size of installation. With solutions ranging from power and lighting control, dimming, energy management, for home automation and commercial applications.

The Clipsal C-Bus® system is a microprocessor based wiring system to control lighting and other electrical services.

Whether on/off control of a lighting circuit or analogue type control such as dimming electronic fluorescent ballasts, C-Bus can be used to control and automate virtually any type of electrical load.

To ensure fast and reliable operation, each device has its own inbuilt microprocessor, which can be individually programmed via 'point and click' PC based software, or via 'learn mode' which doesn't require a PC.

C-Bus information is held within individual units rather than one central point. This ensures optimum communication speed and reliability.

Whilst a computer is not necessary for normal C-Bus operation, PC based control and management software is available and provides additional flexibility to clients requiring this type of control. Clipsal C-Bus is suitable for a wide range of applications, for example:

Commercial Lighting Control

- Fluorescent lighting control for energy cost saving in high rise buildings
- High-bay control in warehouses for energy cost saving
- Mood lighting in restaurants and retail outlets
- Flexible and integrated control of lighting and audio visual equipment in board rooms
- Architectural lighting control for hotel foyers, ballrooms, art galleries and museums

Standalone Room Lighting Control

- Integrated automation via touch screen user interfaces for conference rooms and home theatres
- Multiple scene / mood setting

Residential Automation

- Home entertainment - Integrated audio visual, lighting control, and other electrical services
- Security - Integrated security, lighting and other electrical services
- Comfort - Dimming and scene setting
- Convenience - Multiple point control, central point control from touch screens, automated time based control, automated 'goodbye' and 'welcome home' moods

Key Input Units

Dynamic Labelling Technology, Saturn Series

Square

The square Saturn series dynamic labelling technology switches are learn enabled surface switches designed to control lighting and other electrical services connected to a C-Bus network. The dynamic labelling technology allows the function of the key to be programmed and displayed onto an LCD display next to the switch button.

The display found on the DLT switch, supports multi language text and user defined bitmaps, such as sliders and bar graphs. The LCD display incorporates back lighting that can be enabled for night operation. In addition, the DLT switch features a page scroll button that permits the user to navigate between pages, to access all control options.

Key input units are fully programmable and may be configured as toggle, dimmer, timer or scene control type functions. With C-Bus switches it is possible to realise multi-way, multi-function switching or dimming control.

The Saturn DLT switches feature a glass fascia and are available in a range of colour backgrounds, including white, black, mid brown and cream.

Key input units communicate with all other units and obtain power via a single twisted pair of connections to the C-Bus unit. In the event of C-Bus power failure, non-volatile memory retains all programmed information relating to the unit's operating status.

E5084DLGF

TECHNICAL INFORMATION

C-Bus Supply Voltage	**15-36V DC @ 22mA**
Maximum Number of Units on a Single C-Bus Network	**50**
Button Indicator	**Programmable, Blue**
Timer Range	**1 sec to 18 hrs**
Timer Resolution	**1 sec**
Dimmer Control	**255 possible levels**
Number of Scenes	**8**
Standard Colours	**White and Black**
Operating Temperature Range	**0˚C to 45˚C**
Operating Humidity Range	**10 - 95% RH**

PRODUCT FEATURES

- Available with 4 buttons
- Features blue light indicator with night light function
- Supports text labels and user defined bitmaps
- Ignore first press option
- Fallback to page 1 and 2 option
- Programmable using learn mode or via the C-Bus configuration software
- Programmed variables are stored in non-volatile memory and are retained in case of loss of C-Bus power
- CE (European Community) compliant

CATALOGUE NUMBER	DESCRIPTION
Saturn Dynamic Labelling Technology	
E5084DL	4 Gang Saturn DLT
Cover Selection: (GF) White**, *(380)** Cream, **(680)** Black, ***(780)** Mid-Brown	
Saturn DLT Fascia	
***5084DF**	4 Gang Saturn DLT fascia
Cover Selection: *(GF) White**, *(38)** Cream, ***(68)** Black, ***(78)** Mid-Brown	

***Ask for availability**

Dynamic Labelling Technology, Saturn Series

Rectangular

The rectangular Saturn series dynamic labelling technology switches are learn enabled surface switches designed to control lighting and other electrical services connected to a C-Bus network. The dynamic labelling technology allows the function of the key to be programmed and displayed onto an LCD display next to the switch button.

The display found on the DLT switch, supports multi language text and user defined bitmaps, such as sliders and bar graphs. The LCD display incorporates back lighting that can be enabled for night operation. In addition, the DLT switch features a page scroll button that permits the user to navigate between pages, to access all control options.

Key input units are fully programmable and may be configured as toggle, dimmer, timer or scene control type functions. With C-Bus switches it is possible to realise multi-way, multi-function switching or dimming control.

The Saturn DLT switches feature a glass fascia and are available in a range of colour backgrounds, including white, black, mid brown and cream.

Key input units communicate with all other units and obtain power via a single twisted pair of connections to the C-Bus unit. In the event of C-Bus power failure, non-volatile memory retains all programmed information relating to the unit's operating status.

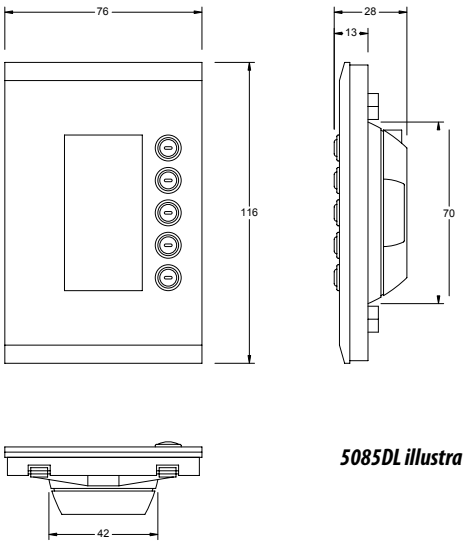
5085DL680

TECHNICAL INFORMATION

C-Bus Supply Voltage	**15-36V DC @ 22mA**
Maximum Number of Units on a Single C-Bus Network	**50**
Button Indicator	**Programmable, Blue**
Timer Range	**1 sec to 18 hrs**
Timer Resolution	**1 sec**
Dimmer Control	**255 possible levels**
Number of Scenes	**8**
Standard Colours	**White and Black**
Operating Temperature Range	**0˚C to 45˚C**
Operating Humidity Range	**10 - 95% RH**

PRODUCT FEATURES

- 5 buttons
- Features blue light indicator with night light function
- Supports text labels and user defined bitmaps
- Ignore first press option
- Fallback to page 1 option
- Programmable using learn mode or via the C-Bus configuration software
- Programmed variables are stored in non-volatile memory and are retained in case of loss of C-Bus power
- CE (European Community) compliant



5085DL illustrated

CATALOGUE NUMBER	DESCRIPTION
Saturn Dynamic Labelling Technology	
5085DL	5 Gang Saturn DLT
Cover Selection: (GF) White**, *(380)** Cream, **(680)** Black, ***(780)** Mid-Brown	
Saturn DLT Fascia	
***5085DF**	5 Gang Saturn DLT fascia
Cover Selection: *(GF) White**, *(30)** Cream, ***(60)** Black, ***(70)** Mid-Brown	

***Ask for availability**

Saturn Input Switches

Square

The square Saturn series key input units are learn enabled surface switches designed to control lighting and other electrical services connected to a C-Bus network.

Suitable for exclusive interiors, the Saturn series features an impact resistant glass fascia with white, mid brown, black or cream backing. The round silver finish push buttons feature a dual coloured light indicator, providing a visual indication of the switch state.

Key input units are fully programmable and may be configured as toggle, dimmer, timer or scene control type functions. With C-Bus switches it is possible to realise multi-way, multi-function switching or dimming control.

Key input units communicate with all other units and obtain power via a single twisted pair connection to the C-Bus. In the event of C-Bus power failure, non-volatile memory retains all programmed information relating to the unit's operating status.

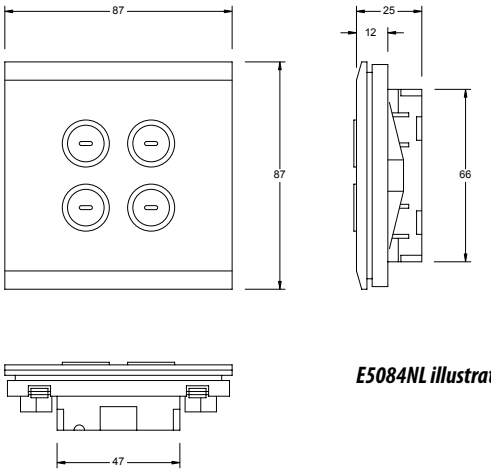
E5084NLGF

TECHNICAL INFORMATION

C-Bus Supply Voltage	**15-36VDC @ 22mA**
Maximum Number of Units on a Single C-Bus Network	**50**
Status Indicator	**Programmable, Dual, Orange and Blue**
Timer Range	**1 sec to 18 hrs**
Timer Resolution	**1 sec**
Dimmer Control	**255 possible levels**
Mounting Centres	**84mm**
Standard Colours	**White and Black**
Operating Temperature Range	**0˚C to 45˚C**
Operating Humidity Range	**0 - 95% RH, non-condensing**

PRODUCT FEATURES

- Available as 2, 4 or 6 key configuration
- Features bi-colour light indicator with night light
- Programmable using learn mode or via the C-Bus Toolkit Software
- Programmed variables are stored in non-volatile memory and are retained in case of loss of C-Bus power
- Features, 60.3mm mounting centres
- Available in glass finish with white, black, cream or mid-brown background
- CE (European Community) compliant



E5084NL illustrated

CATALOGUE NUMBER	DESCRIPTION
Saturn Input Units	
E5082NL	2 Gang Saturn input square
E5084NL	4 Gang Saturn input square
E5086NL	6 Gang Saturn input square
Cover Selection: (GF) White, ***(380)** Cream, **(680)** Black, ***(780)** Mid-Brown	

***Ask for availability**

Saturn Input Switches

Rectangular

The rectangular Saturn series key input units are learn enabled surface switches designed to control lighting and other electrical services connected to a C-Bus Network.

Suitable for exclusive interiors, the Saturn series features an impact resistant glass fascia with white, mid brown, black or cream backing. The round silver finish push buttons feature a dual coloured light indicator, providing a visual indication of the switch state.

Key input units are fully programmable and may be configured as toggle, dimmer, timer or scene control type functions. With C-Bus switches it is possible to realise multi-way, multi-function switching or dimming control.

Key input units communicate with all other units and obtain power via a single twisted pair connection to the C-Bus. In the event of C-Bus power failure, non-volatile memory retains all programmed information relating to the unit's operating status.

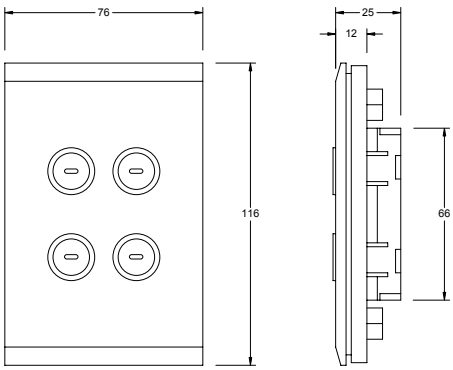
5084NLGF

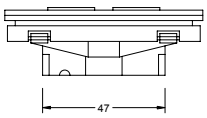
TECHNICAL INFORMATION

C-Bus Supply Voltage	**15-36VDC @ 22mA**
Maximum Number of Units on a Single C-Bus Network	**50**
Status Indicator	**Programmable, Dual, Orange and Blue**
Timer Range	**1 sec to 18 hrs**
Timer Resolution	**1 sec**
Dimmer Control	**255 possible levels**
Mounting Centres	**84mm**
Standard Colours	**White and Black**
Operating Temperature Range	**0˚C to 45˚C**
Operating Humidity Range	**0 - 95% RH, non-condensing**

PRODUCT FEATURES

- Available as 2, 4 or 6 key configuration
- Features bi-colour light indicator with night light
- Programmable using learn mode or via the C-Bus Toolkit Software
- Programmed variables are stored in non-volatile memory and are retained in case of loss of C-Bus power
- Features, 84mm mounting centres, compatible with Clipsal Mounting Boxes
- Available in glass finish with white, black, cream or mid-brown background
- CE (European Community) compliant





5084NL

CATALOGUE NUMBER	DESCRIPTION
Saturn Input Units	
5082NL	2 Gang Saturn input square
5084NL	4 Gang Saturn input square
5086NL	6 Gang Saturn input square
Cover Selection: (GF) White**, *(380)** Cream, **(680)** Black, ***(780)** Mid-Brown	

***Ask for availability**

Saturn Accessories
Saturn Fascia

E5086F30

E5086F60

E5086F70

5086F30

5086F60

5086F70

CATALOGUE NUMBER	DESCRIPTION
***E5082F**	2 Gang Saturn Fascia Square
***E5084F**	4 Gang Saturn Fascia Square
***E5086F**	6 Gang Saturn Fascia Square
Cover Selection: *White (GF), *Cream (30), *Black (60), *Mid-Brown (70)	
***5082F**	2 Gang Saturn Fascia Rectangular
***5084F**	4 Gang Saturn Fascia Rectangular
***5086F**	6 Gang Saturn Fascia Rectangular
Cover Selection: *White (GF), *Cream (30), *Black (60), *Mid-Brown (70)	

***Ask for availability**

Pre-labelled Button Caps

5080LC

CATALOGUE NUMBER	DESCRIPTION
5080LC	Pre-labelled Button Caps

Neo Dynamic Labelling Technology

Square

The square Neo series dynamic labelling technology switches are learn enabled surface switches designed to control lighting and other electrical services connected to a C-Bus network. The dynamic labelling technology allows the function of the key to be programmed and displayed onto a LCD display next to the switch button.

The display found on the DLT switch, supports multi language text and user defined bitmaps, such as sliders and bar graphs. The LCD display incorporates back lighting that can be enabled for night operation. In addition, the DLT switch features a page scroll button that permits the user to navigate between pages, to access all control options.

Key input units are fully programmable and may be configured as toggle, dimmer, timer or scene control type functions. With C-Bus switches it is possible to realise multi-way, multi-function switching or dimming control.

Key input units communicate with all other units and obtain power via a single twisted pair of connections to the C-Bus. In the event of C-Bus power failure, non-volatile memory retains all programmed information relating to the unit's operating status.

E5054DLGB

TECHNICAL INFORMATION

C-Bus Supply Voltage	**15-36V DC @ 22mA**
Maximum Number of Units on a Single C-Bus Network	**50**
Button Indicator	**Programmable, Blue**
Timer Range	**1 sec to 18 hrs**
Timer Resolution	**1 sec**
Dimmer Control	**255 possible levels**
Number of Scenes	**8**
Standard Colours	**Grey/Silver**
Operating Temperature Range	**0˚C to 45˚C**
Operating Humidity Range	**10 - 95% RH**

PRODUCT FEATURES

- Available with 4 buttons
- Features blue light indicator with night light function
- Supports text labels and user defined bitmaps
- Ignore first press option
- Fallback to page 1 and 2 option
- Programmable using learn mode or via the C-Bus configuration software
- Programmed variables are stored in non-volatile memory and are retained in case of loss of C-Bus power
- CE (European Community) compliant

CATALOGUE NUMBER	DESCRIPTION
E5054DLGB	4 Gang Neo Square DLT Grey/Silver

Neo Dynamic Labelling Technology

Rectangular

The rectangular Neo series dynamic labelling technology switches are learn enabled, surface switches designed to control lighting and other electrical services connected to a C-Bus network. The dynamic labelling technology allows the function of the key to be programmed and displayed onto a LCD display next to the switch button.

The display found on the DLT switch, supports multi language text and user defined bitmaps, such as sliders and bar graphs. The LCD display incorporates back lighting that can be enabled for night operation. In addition, the DLT switch features a page scroll button that permits the user to navigate between pages, to access all control options.

Key input units are fully programmable and may be configured as toggle, dimmer, timer or scene control type functions. With C-Bus switches it is possible to realise multi-way, multi-function switching or dimming control.

Key input units communicate with all other units and obtain power via a single twisted pair of connections to the C-Bus. In the event of C-Bus power failure, non-volatile memory retains all programmed information relating to the unit's operating status.

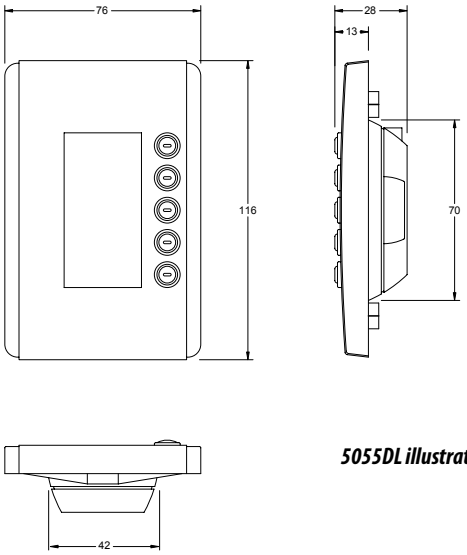
5055DLGB

TECHNICAL INFORMATION

C-Bus Supply Voltage	**15-36V DC @ 22mA**
Maximum Number of Units on a Single C-Bus Network	**50**
Button Indicator	**Programmable, Blue**
Timer Range	**1 sec to 18 hrs**
Timer Resolution	**1 sec**
Dimmer Control	**255 possible levels**
Number of Scenes	**8**
Standard Colours	**Grey/Silver**
Operating Temperature Range	**0˚C to 45˚C**
Operating Humidity Range	**10 - 95% RH**

PRODUCT FEATURES

- 5 buttons
- Features blue light indicator with night light function
- Supports text labels and user defined bitmaps
- Ignore first press option
- Fallback to page 1 option
- Programmable using learn mode or via the C-Bus configuration software
- Programmed variables are stored in non-volatile memory and are retained in case of loss of C-Bus power
- CE (European Community) compliant



5055DL illustrated

CATALOGUE NUMBER	DESCRIPTION
5055DLGB	5 Gang Neo input rectangular DLT Grey/Silver

Neo Input Switches

Square

The Neo key input units are learn enabled surface switches designed to control lighting and other electrical services connected to a C-Bus network.

Suitable for exclusive interiors, the Neo features large, flat, tactile rocker action switches that have been designed to blend in with the fascia. The Neo switches feature a bi-colour light indicator that provides a visual indication of switch status.

The Neo switches feature a night light function, and incorporate an infrared receiver in the body of the unit, so the switch may be used with a remote control.

Key input units are fully programmable and may be configured as toggle, dimmer, timer or scene control type functions. With C-Bus switches it is possible to realise multi-way, multi-function switching or dimming control.

Key input units communicate with all other units and obtain power via a single twisted pair connection to the C-Bus. In the event of C-Bus power failure, non-volatile memory retains all programmed information relating to the unit's operating status.

The Neo switches are available in a wide range of finishes.

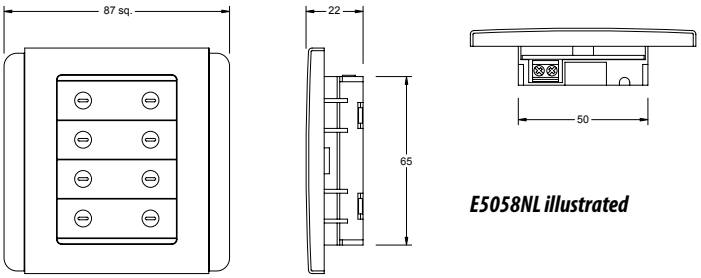
E5058NLGB

TECHNICAL INFORMATION

C-Bus Supply Voltage	**15-36VDC @ 22mA**
Maximum Number of Units on a Single C-Bus Network	**50**
Status Indicator	**Programmable, Dual, Orange and Blue**
Timer Range	**1 sec to 18 hrs**
Timer Resolution	**1 sec**
Dimmer Control	**255 possible levels**
Mounting Centres	**60.3mm**
Standard Colours	**Grey/Silver**
Standard Colours (Inner Surround)	**Grey/Silver**
Operating Temperature Range	**0˚C to 45˚C**
Operating Humidity Range	**0 - 95% RH, non-condensing**

PRODUCT FEATURES

- Available as 2, 4 or 8 key configuration
- Features bi-colour light indicator with night light function
- Built in infrared receiver
- Programmable using learn mode or via the C-Bus Toolkit Software
- Programmed variables are stored in non-volatile memory and are retained in case of loss of C-Bus power
- Features 60.3mm mounting centres
- CE (European Community) compliant



E5058NL illustrated

CATALOGUE NUMBER	DESCRIPTION
E5052NLGB	2 Gang Neo Input Square Grey/Silver
E5054NLGB	4 Gang Neo Input Square Grey/Silver
E5058NLGB	8 Gang Neo Input Square Grey/Silver

Neo Input Switches

Rectangular

The rectangular Neo key input units are learn enabled surface switches designed to control lighting and other electrical services connected to a C-Bus network.

Suitable for exclusive interiors, the Neo features large, flat, tactile rocker action switches that have been designed to blend in with the fascia. The Neo switches feature a bi-colour light indicator that provides a visual indication of switch status.

The Neo switches feature a night light function, and incorporate an infrared receiver in the body of the unit, so the switch may be used with a remote control.

Key input units are fully programmable and may be configured as toggle, dimmer, timer or scene control type functions. With C-Bus switches it is possible to realise multi-way, multi-function switching or dimming control.

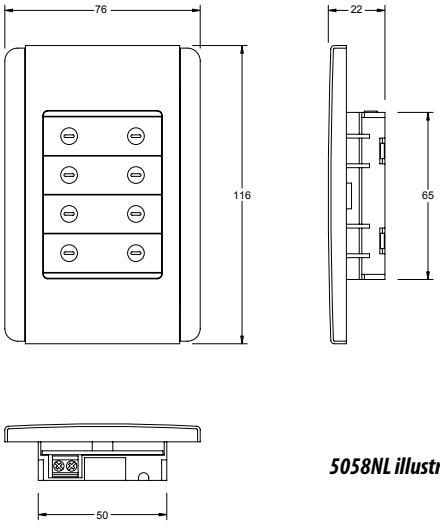
Key input units communicate with all other units and obtain power via a single twisted pair connection to the C-Bus. In the event of C-Bus power failure, non-volatile memory retains all programmed information relating to the unit's operating status.

The Neo switches are available in a wide range of colours and finishes.

5058NLGB

TECHNICAL INFORMATION

C-Bus Supply Voltage	**15-36VDC @ 22mA**
Maximum Number of Units on a Single C-Bus Network	**50**
Status Indicator	**Programmable, Dual, Orange and Blue**
Timer Range	**1 sec to 18 hrs**
Timer Resolution	**1 sec**
Dimmer Control	**255 possible levels**
Mounting Centres	**60.3mm**
Standard Colours	**Grey/Silver**
Standard Colours (Inner Surround)	**Grey/Silver**
Operating Temperature Range	**0˚C to 45˚C**
Operating Humidity Range	**0 - 95% RH, non-condensing**



5058NL illustrated

PRODUCT FEATURES

- Available as 2, 4 or 8 key configuration
- Features bi-colour light indicator with night light function
- Built in infrared receiver
- Programmable using learn mode or via the C-Bus Toolkit Software
- Programmed variables are stored in non-volatile memory and are retained in case of loss of C-Bus power
- Features 84mm mounting centres, compatible with Clipsal Mounting Boxes
- CE (European Community) compliant

CATALOGUE NUMBER	DESCRIPTION
5052NLGB	2 Gang Neo Input Rectangular Grey/Silver
5054NLGB	4 Gang Neo Input Rectangular Grey/Silver
5058NLGB	8 Gang Neo Input Rectangular Grey/Silver

Neo Accessories

E5050OS

5050OS

E5050OIS

5050IS

5052NRPWE

5052NRIBK

5052NRIGB

CATALOGUE NUMBER	DESCRIPTION
***E5050IS †**	Square inner surround - pack of 5
***5050IS †**	Rectangular inner surround - pack of 5
† Available in *Grey/Silver (GB), *White (WE), *Cream (CR), *Desert Sand (DS), *Soft Grey (SG), *Black (BK), *Brown (BR)	
***E5050ISBA**	Square inner surround - brushed aluminium - pack of 5
***5050ISBA**	Rectangular inner surround - brushed aluminium - pack of 5
***E5050ISGD**	Square inner surround - gold - pack of 5
***5050ISGD**	Rectangular inner surround - gold - pack of 5
***E5050OS †**	Square outer surround - pack of 5
***5050OS †**	Rectangular outer surround - pack of 5
† Available in *Grey/Silver (GB), *White (WE), *Cream (CR), *Desert Sand (DS), *Soft Grey (SG), *Black (BK), *Brown (BR)	
***5052NRP †**	Rocker Switch Covers and Spacers for 2 Gang input unit
***5054NRP †**	Rocker Switch Covers and Spacers for 4 Gang input unit
***5058NRP †**	Rocker Switch Covers and Spacers for 8 Gang input unit
† Available in *Grey/Silver (GB), *White (WE), *Cream (CR), *Desert Sand (DS), *Soft Grey (SG), *Black (BK), *Brown (BR)	
***5052NRI †**	Rocker Switch with ID Window - pack of 10
† Available in *Grey/Silver (GB), *White (WE), *Cream (CR), *Black (BK)	

***Ask for availability**

Moulding Frames

5850FBK

5850FBR

5850FCM

5850FWE

CATALOGUE NUMBER	DESCRIPTION
Moulding Frames	
***5850FBK**	Moulding frame rectangular - Black 5pk
***5850FBR**	Moulding frame rectangular - Brown 5pk
***5850FCM**	Moulding frame rectangular - Cream 5pk
***5850FWE**	Moulding frame rectangular - White 5pk
Wall boxes	
1571	Wall box J type metal
1571P	Wall box J type plastic
***E5050MF**	Mounting flange

***Ask for availability**

E-Series Range Input Switches

The E-Series key input units are learn enabled surface switches designed to control lighting and other electrical services connected to a C-Bus network.

Key input units are fully programmable and may be configured as toggle, dimmer, type functions. With C-Bus switches it is possible to realise multi-way, multi-function switching or dimming control.

Key input units communicate with all other units and obtain power via a single twisted pair connection to the C-Bus. In the event of C-Bus power failure, non-volatile memory retains all programmed information relating to the unit's operating status.

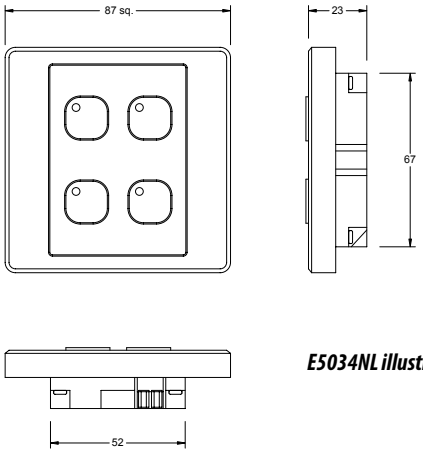
E5034NLWE

TECHNICAL INFORMATION

C-Bus Supply Voltage	**15-36VDC @ 18mA**
Maximum Number of Units on a Single C-Bus Network	**100**
Status Indicator	**Programmable, Orange LED**
Timer Range	**1 sec to 18 hrs**
Timer Resolution	**1 sec**
Dimmer Control	**255 possible levels**
Mounting Centres	**60.3mm**
Standard Colours	**White**
Operating Temperature Range	**0˚C to 45˚C**
Operating Humidity Range	**0 - 95% RH, non-condensing**

PRODUCT FEATURES

- Available as 1, 2 or 4 key configuration
- Programmable using learn mode or via the C-Bus Toolkit Software
- Features 60.3mm mounting centres
- CE (European Community) compliant



E5034NL illustrated

CATALOGUE NUMBER	DESCRIPTION
***E5031NLWE**	1 Gang key vertical
***E5032NLWE**	2 Gang key horizontal
***E5032VNLWE**	2 Gang key vertical
***E5034NLWE**	4 Gang key vertical

***Ask for availability**

Reflection Range Input Switches

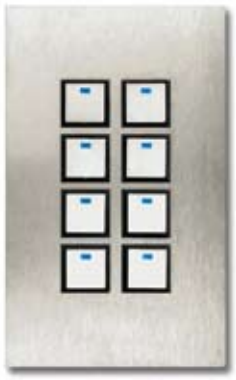
The Reflections series key input units are learn enabled, ultra flat, surface switches designed to control lighting and other electrical services connected to a C-Bus network.

Suitable for exclusive interiors, the Reflection switches feature a screwless, high grade, stainless steel metal cover. The screwless design means that the aesthetics and architectural finish of the product provides a clean, stylish appearance.

The Reflection series also feature square, backlit, metal finish switches to maintain the aesthetics of the switch plate.

Key input units are fully programmable and may be configured as toggle, dimmer, timer or scene control type functions. With C-Bus switches it is possible to realise multi-way, multi-function switching or dimming control.

Key input units communicate with all other units and obtain power via a single twisted pair connection to the C-Bus. In the event of C-Bus power failure, non-volatile memory retains all programmed information relating to the unit's operating status.

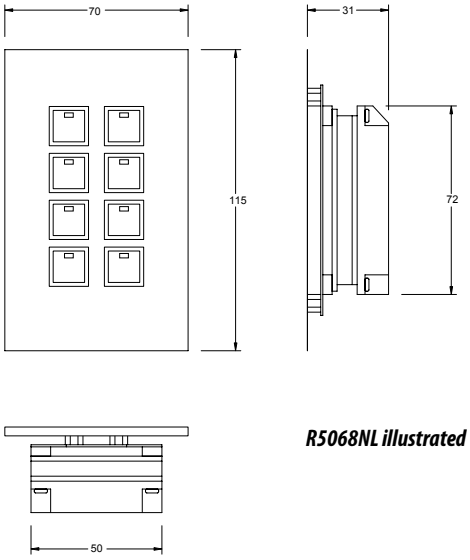


R5068NL

R5050WB

TECHNICAL INFORMATION

C-Bus Supply Voltage	**15-36VDC @ 20mA**
Maximum Number of Units on a Single C-Bus Network	**50**
Status Indicator	**Programmable, Blue LED**
Timer Range	**1 sec to 18 hrs**
Timer Resolution	**1 sec**
Dimmer Control	**255 possible levels**
Mounting Centres	**84mm**
Operating Temperature Range	**0˚C to 45˚C**
Operating Humidity Range	**0 - 95% RH, non-condensing**



R5068NL illustrated

PRODUCT FEATURES

- Available as 1, 2, 3, 4, 6 and 8 key configuration
- Features blue light indicator with night light
- Programmable using learn mode or via the C-Bus Toolkit Software
- Programmed variables are stored in non-volatile memory and are retained in case of loss of C-Bus power
- Features 84mm mounting centres (requires special wallbox for mounting)
- CE (European Community) compliant

CATALOGUE NUMBER	DESCRIPTION
***R5061NL**	1 Gang input reflection range
***R5062VNL**	2 Gang input reflection range
***R5063NL**	3 Gang input reflection range
***R5064VNL**	4 Gang input reflection range
***R5066NL**	6 Gang input reflection range
***R5068NL**	8 Gang input reflection range
R5050WB	Back box for reflection range

***Ask for availability**

Input Units

Black & White Touch Screen

The Black and White Touch Screen builds on the success of the Monochrome Touch Screen, with many enhancements made in this innovative product developed by Clipsal engineers.

Designed to be quicker, easier and more flexible to install and commission, the new unit has significant enhancements to its predecessor. Compatible with Version 4 of Clipsal's Windows® based drag and drop programming software (PICED), commissioning is now possible through a standard USB port located underneath the fascia that can be utilised as a PC interface. A separate RS-232 port is included within the logic versions to allow integration to third party devices.

The touch screen requires a custom wall box, which is supplied separately but does not require an external power supply.

5080CT26

BS5000CT2

TECHNICAL INFORMATION

C-Bus Supply Voltage	**15-36VDC @ 65mA**
Control Functions	**Load switching & dimming** **Scene control** **Logic (Logic engine versions only)** **Scheduling**
Screen Type	**Black & White, Backlit**
Resolution	**Screen size, QVGA 320 x 240 pixels**
Screen Size viewing area	**100mm x 75mm (119mm Diagonal)**
Real Time Clock	**365 day**
Backlighting	**Yes, programmable**
Network Burden	**Software selectable**
System Clock	**Software selectable**
C-Bus Connection	**Screw terminals**
Programming Port	**USB Type B**
Surround Colours	**Saturn, Neo, Stainless Steel, Plastic**
Operating Temperature Range	**10˚C to 45˚C**
Operating Humidity Range	**10 – 95% RH**
Maximum number of controller loads	**255 Group Addresses on each of the 10 C-Bus Applications**
Maximum number of C-Touch Units on a single C-Bus Network	**10**
Third Party interface	**RS-232 port (supported by Logic Engine versions only)**

PRODUCT FEATURES

- Larger screen than monochrome model with enhanced contrast and superior backlighting
- Compatible with Version 4 of Clipsal's Windows® based drag and drop programming software (PICED)
- Available with or without C-Bus Logic Engine features
- A separate RS-232 port is included on the rear of the unit for third party device integration (supported by Logic Engine versions only)
- Programmed via a standard USB port on the unit
- USB programming port accessible from the front of the unit
- Does not require additional power supply
- CE (European Community) compliant

BLACK AND WHITE TOUCH SCREEN

CATALOGUE NUMBER	DESCRIPTION
Saturn Touch Screen w/o Logic Engine	
5080CT2GF	Black & White Touch Screen White
***5080CT23**	Black & White Touch Screen Cream
***5080CT27**	Black & White Touch Screen Mid-Brown
5080CT26	Black & White Touch Screen Black
Neo Touch Screen w/o Logic Engine	
5050CT2GB	Black & White Touch Screen Neo Grey/Silver
***5050CT2WE**	Black & White Touch Screen Neo White
***5050CT228**	Black & White Touch Screen Neo White Brushed Aluminium
***5050CT2BK**	Black & White Touch Screen Neo Black
Flat Plate Series w/o Logic Engine	
***BS5000CT2**	Black & White Touch Screen Stainless Steel
Plastic Series w/o Logic Engine	
SC5000CT2WE	Black & White Touch Screen Plastic White
***SC5000CT2CM**	Black & White Touch Screen Plastic Cream
***SC5000CT2BK**	Black & White Touch Screen Plastic Black

*** Ask for availability**

Black & White Touch Screen

5080CTL2GF

5080CTL27

5080CTL23

CATALOGUE NUMBER	DESCRIPTION
Saturn Touch Screen with Logic Engine	
5080CTL2GF	Black & White Touch Screen Logic Saturn White
***5080CTL23**	Black & White Touch Screen Logic Saturn Cream
***5080CTL27**	Black & White Touch Screen Logic Saturn Mid-brown
5080CTL26	Black & White Touch Screen Logic Saturn Black
Neo Touch Screen with Logic Engine	
5050CTL2GB	Black & White Touch Screen Logic Neo Grey/Silver
***5050CTL2WE**	Black & White Touch Screen Logic Neo White
***5050CTL228**	Black & White Touch Screen Logic Neo White Brushed Aluminium
***5050CTL2BK**	Black & White Touch Screen Logic Neo Black
Flat Plate Touch Screen with Logic Engine	
***BS5000CTL2**	Black & White Touch Screen Logic S/Steel
Plastic Series Touch Screen with Logic Engine	
SC5000CTL2WE	Black & White Touch Screen Logic Plastic White
***SC5000CTL2CM**	Black & White Touch Screen Logic Plastic Cream
***SC5000CTL2BK**	Black & White Touch Screen Logic Plastic Black

ACCESSORIES FOR BLACK & WHITE TOUCH SCREEN

CATALOGUE NUMBER	DESCRIPTION
Wall box	
5000CT2WB	Black & White Touch Screen Wall Box
Third Party Interface Lead	
5000CT2RS232	Black & White Touch Screen RS232 Lead
Fascia	
***5080CT2F**	Saturn glass fascia
Cover Selection: (GF) White, **(3)** Cream, **(6)** Black, **(7)** Mid-Brown	
***5050CT2F**	Neo fascia
Cover Selection: (28) White & Brushed Aluminium, **(BK)** Black, **(GB)** Grey/Silver, **(WE)** White	
Flat Plate	
***BS5000CT2F**	Black & White Touch Screen Metal Fascia Stainless Steel
Plastic Series	
***SC5000CT2FWE**	Black & White Touch Screen Plastic Fascia White
***SC5000CT2FCM**	Black & White Touch Screen Plastic Fascia Cream
***SC5000CT2FBK**	Black & White Touch Screen Plastic Fascia Black

*** Ask for availability**

Colour Touch Screens

The colour touch screen provides a simple, elegant and functional interface to a C-Bus management and control system. The touch screen provides a focal point to control and monitor a building's electrical systems, such as lighting, irrigation and entertainment services.

The touch screen is a wall mounted, touch sensitive, high resolution LCD screen that supports user defined graphics such as sliders, bitmaps and images and text characters, including English, Chinese, Arabic and other languages. The menus are fully customised at the time of installation, and may be changed at any time thereafter.

The touch screen incorporates an astronomical, real time clock for event scheduling and calendar functions, based on time of day, week, month or year. The colour touch screen features a logic engine module, that facilitates the development of logic based routines and scenarios, providing additional functionality of the installed system.

In addition, the colour touch screen is supplied with powerful configuration software that allows the installer to develop custom pages and menus to suit any installation of any size.

Available in either Neo or Saturn style, to complement the existing C-Bus wall switches. In addition, the touch screen features backlighting, that is controlled from a light level sensor located on the unit. The touch screen requires a custom wall box and power supply, which are supplied separately.

BS5000CTC2

5050CTC2

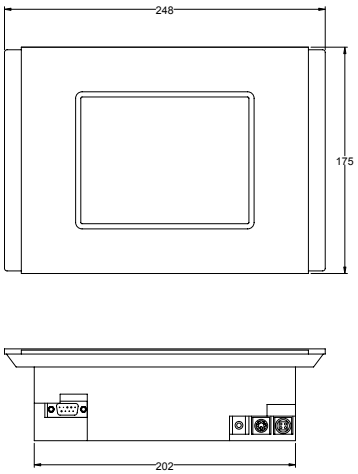
TECHNICAL INFORMATION

C-Bus Supply Voltage	**15 - 36VDC @ 22mA**
External Power Supply	**5VDC @ 10A (supplied)**
Control Functions	**Switching, dimming, scene control, event scheduling or logic module**
Screen Type	**LCD active matrix, backlit**
Touch Overlay Type	**Resistive membrane**
Resolution	**VGA, 640 x 480 pixels**
Screen Size	**16.25cm (diagonal)**
Screen Viewing Area	**130mm(W) x 97mm(H)**
Horizontal Viewing Angles	**+/- 70˚**
Vertical Viewing Angles	**40˚ up and 70˚ down**
Luminance	**300 cd/m²**
Backlight	**Cold cathode with light sensor**
Memory	**256MB compact flash**
Real Time Clock	**365 day**
Network Burden	**Software selectable**
System Clock	**Software selectable**
C-Bus Connection	**2 x RJ45 sockets**
Ethernet Connection	**2 x RJ45 sockets, 10/100MHz**
Serial Connection	**DB9 plug**
Composite Video	**RCA socket**
Styles	**NEO (ABS), SATURN (Glass), Brass and Stainless Steel**
Dimensions	**248mm(W) x 175mm(H) x 60mm(D)**
Operating Temperature Range	**0˚C to 30˚C**
Operating Humidity Range	**10 - 95% RH, non-condensing**

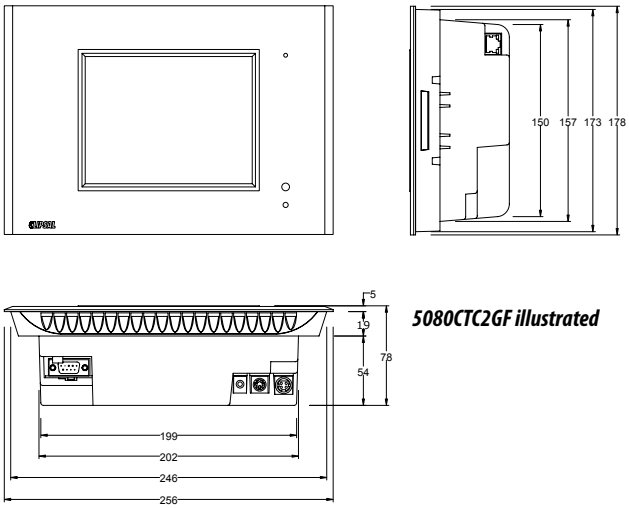
PRODUCT FEATURES

- Programmable using the C-Bus touch screen configuration software, via the serial or Ethernet connection
- Programmed variables are stored in non-volatile memory and are retained in case of loss of C-Bus power
- Controls and monitors devices connected to the C-Bus, Ethernet or serial connections
- Functions include; scheduling, scene control, irrigation control, logic and scenario management
- Astronomical clock for scheduling and time management of events
- Graphical user based drag and drop configuration software, plus free form logic programming language
- Software interface design supports 101 levels of alpha blending
- Animated buttons with up to 256 animation frames supported
- Fully customized graphics, including bar graphs, sliders, percentage indicators, images, gauges and clocks, with any border and background style
- Supports embedded web pages
- Supports audio WAV files
- Password access control
- External power supply included
- CE (European Community) compliant

Colour Touch Screens



5050CTC2 illustrated



5080CTC2GF illustrated

CATALOGUE NUMBER	DESCRIPTION
Saturn Touch Screen	
5080CTC2GF	Colour touch screen with white saturn
Neo Touch Screen	
5050CTC2	Colour touch screen with white neo
Flat Plate Series	
BS5000CTC2	Colour touch screen with stainless steel

Accessories for Colour Touch Screen

CATALOGUE NUMBER	DESCRIPTION
Wallbox	
5000CTCWB	Colour Touch screen wall box
Power Supply	
5000CTCPS2	Colour Touch screen Power Supply

Thermostats

Single Zone

4 Zone

Enjoy the perfect temperature all year round with C-Bus Thermostats. C-Bus Thermostats are programmable and will control heating, ventilation, and air conditioning (HVAC) equipment.

The Thermostat range allows the user to manually set the mode of operation (heating, cooling and ventilation) as well as control fan speed and setback or economy modes. The easy to use operater interface includes an integral LCD to display the current temperature and mode of operation. Thermostat is compatible with equipment that supports SELV contact (RWG) control.

Wall mounted, Single Zone Thermostats include support for control of HVAC units via C-Bus or the internal HVAC relays. They also allow the user to manuallyu set the temperature and mode of operation (heating, cooling or ventilation). The easy to use operator interface includes fan speed control, set back or economy mode and an integral LCD to display the current temperature and mode of operation.

Programmable 4 Zone Thermostats include on-board 7-day HVAC time scheduling (user programmable) manual fan speed control, set back mode and an easy to use interface, comprising of an LCD, manual control buttons and a rotating dial with an integral press switch. From the unit, the user can manually adjust the temperature set point, the mode of operation (heating, cooling, ventilation) and time schedules.

TECHNICAL INFORMATION

C-Bus Supply Voltage	**15 - 36VDC, 40mA** **Does not supply current to the C-Bus network**
C-Bus AC Input Impedance	**50k @ 1kHz**
Relays (5070THPR model)	**Each relay rated at 2A @ 24V ac 3750V isolation between terminals and C-Bus**
C-Bus Connection	**One terminal block to accommodate 0.2 to 1.3mm² (24 to 16 AWG)**
Temperature Sensor Accuracy	**=/- 0.5°C (+/- 0.9°F)**
C-Bus System Clock	**Software selectable**
Network Burden	**Software selectable**
Operating Temperature	**-10 to 50°C (14 to 122°F)**
Operating Humidity Range	**10 to 95% R.H.**

PRODUCT FEATURES

- Support for control of HVAC units via C-Bus or internal relays ('RWG' control)
- Control of up to four switched Zones for ducted systems plus the common zone (4 zone unit only)
- 7 day programmable HVAC schedules (4 zone unit only)
- Support for remote temperature sensing by other C-Bus devices
- Optional manual fan speed (for HVAC plant that supports variable fan speeds)
- Setback capability for reducing energy consumption.
- CE (European Community) compliant

CATALOGUE NUMBER	DESCRIPTION
***5070THBRPGWE**	Single Zone White
***5070THBRBK**	Single Zone Black
***5070THBRSS**	Single Zone Stainless Steel
***5070THBPGWE**	Single Zone no relays White
***5070THBBK**	Single Zone no relays Black
***5070THBSS**	Single Zone no relays Stainless Steel

CATALOGUE NUMBER	DESCRIPTION
***5070THPRPGWE**	4 Zone White
***5070THPRBK**	4 Zone Black
***5070THPRSS**	4 Zone Stainless Steel
***5070THPPGWE**	4 Zone no relays White
***5070THPBK**	4 Zone no relays Black
***5070THPSS**	4 Zone no relays Stainless Steel

***Ask for availability**

General Input Unit

The 4 channel general input units are DIN rail mounted units designed to measure digital, voltage, current loop and thermistor inputs and generate messages to the C-Bus network.

The unit is designed to broadcast the actual measured value to the C-Bus network, which in turn may be displayed on other C-Bus devices such as the touch screen, C-Gate or C-Lution. In addition, the unit may trigger a group address as a function of the input level, up to eight trigger points may be assigned to a single input channel.

The general input unit is designed to interface to third party products, such as light level sensors, temperature sensors, power, frequency, moisture, rate sensors and others. In this way, the general input may be used to extend the functionality of the C-Bus and its ability to integrate with other systems such as HVAC and power monitoring systems. The general input also generates 24VDC to power the external sensors.

The general input units are available as passive models only, hence do not source current to the C-Bus network.

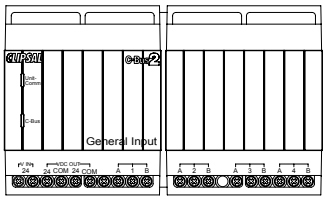
E5504GI

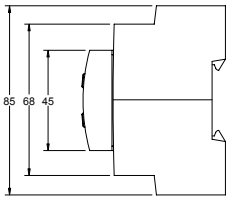
TECHNICAL INFORMATION

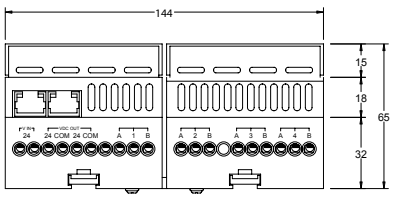
Catalogue Number	**E5504GI**
Supply Voltage	**24VAC +/- 10% @ 500mA, power pack not supplied with the unit**
Supply Frequency	**50/60Hz**
C-Bus Supply Voltage	**15-36VDC @ 18mA**
Auxiliary Output	**24VDC @ 250mA**
Voltage Inputs	**0 - 1V, 0 - 5V, 0 - 10V and 0 - 20V**
Current Inputs	**0 - 20mA and 4 - 20mA**
Impedance Inputs	**0 - 500Ω, 0-1kΩ and 0-3kΩ**
Digital Inputs	**Yes**
Broadcast Rate	**2 to 1,024 seconds**
Maximum Number of Units on a Single C-Bus Network	**10**
Status Indicators	**Unit and C-Bus**
A/D Conversion	**8 - bit**
Accuracy	**0.5%**
Warm Up Time	**5 seconds**
Network Clock	**Software selectable**
Network Burden	**Software selectable**
C-Bus Termination	**2 x RJ45 Socket**
Load Termination	**2 x 1.5mm² or 1 x 2.5mm²**
Operating Temperature Range	**0˚C to 45˚C**
Operating Humidity Range	**0 - 95% RH, non-condensing**

PRODUCT FEATURES

- Provides 4 channels of input, compatible with a range of third party sensor products
- Capable of threshold switching or broadcasting value onto the network
- Programmable via the C-Bus Toolkit Software
- Programmed variables are stored in non-volatile memory and are retained in case of loss of mains or C-Bus power
- Designed to fit standard 35mm top hat DIN rail
- Designed to fit into standard electrical switchboards
- CE (European Community) compliant







E5504GI illustrated

CATALOGUE NUMBER	DESCRIPTION
***E5504GI**	4 channel general input module

***Ask for availability**

Auxiliary Input Unit

Learn Enabled

The auxiliary input unit is a DIN rail mounted unit that provides four isolated inputs for voltage free, mechanical switches to interface to the C-Bus network. The auxiliary input supports momentary and latching switch types.

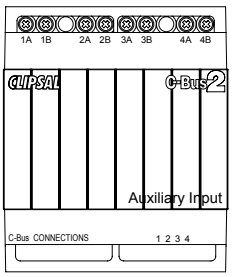
The auxiliary input unit features learn mode, Channel, C-Bus and unit status indicators.

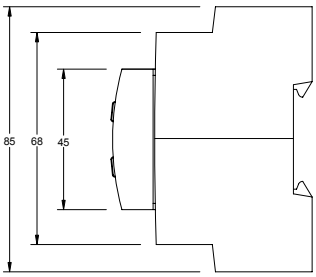
The auxiliary input unit may be programmed with the same functions as a key input, including toggle, timer, dimmer and scene control.

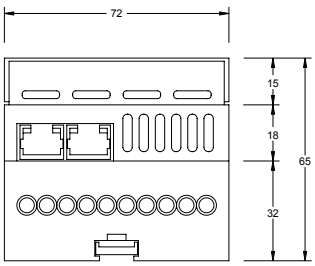
L5504AUX

TECHNICAL INFORMATION

Catalogue Number	**L5504AUX**
C-Bus Supply Voltage	**15-36VDC @ 18mA**
Switch Isolation	**500V**
Maximum Switch and Cable Impedance	**1000Ω**
Switch Open Voltage	**5V**
Switch Closed Current	**0.4mA**
Maximum Number of Units on a Single C-Bus Network	**100**
Status Indicators	**Channel (4), Unit and C-Bus**
Warm Up Time	**5 seconds**
C-Bus Termination	**2 x RJ45 Sockets**
Load Termination	**2 x 1.5mm² or 1 x 2.5mm²**
Operating Temperature Range	**0˚C to 45˚C**
Operating Humidity Range	**0 - 95% RH, non-condensing**







L5504AUX illustrated

PRODUCT FEATURES

- Provides 4 channels of input, compatible with voltage free mechanical switches
- Isolated inputs, up to 500V isolation
- Programmable by learn mode or using the C-Bus Toolkit Software
- Programmed variables are stored in non-volatile memory and are retained in case of loss of mains or C-Bus power
- Designed to fit standard 35mm top hat DIN rail
- Designed to fit into standard electrical switchboards
- CE (European Community) compliant

CATALOGUE NUMBER	DESCRIPTION
***L5504AUX**	4 channel auxiliary input unit

***Ask for availability**

Bus Coupler

Learn Enabled

The bus couplers provide non-isolated inputs for voltage free, mechanical switches to interface to the C-Bus network. The bus couplers support momentary and latching switch types.

The bus coupler units may be programmed with the same functions as a key input, including toggle, timer, dimmer and scene control.

The four channel bus coupler provides support for 4 switches which are programmed to report the state of the switch.

The bus couplers are small in size and volume and are designed to fit into any wallbox.

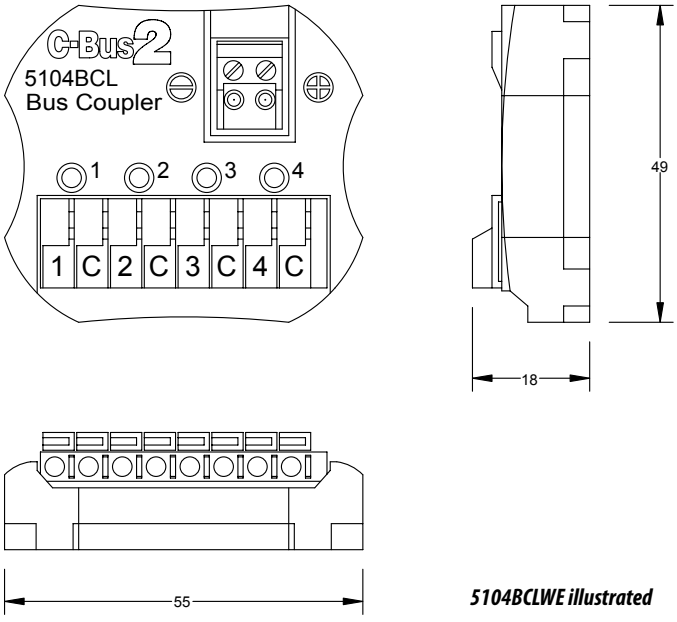
5104BCLWE

TECHNICAL INFORMATION

Catalogue Number	**5104BCL**
C-Bus Supply Voltage	**15-36VDC @ 18mA**
Maximum Distance between Switch and Bus Coupler	**1m**
Number of Channels	**4**
LED Drive Output	**0mA**
Maximum Number of Units on a Single C-Bus Network	**100**
Status Indicators	**Channel (4)**
Warm Up Time	**5 seconds**
C-Bus Termination	**Screw terminals**
Load Termination	**Push Terminals, 1 x 1.5mm2**
Operating Temperature	**0˚C to 45˚C**
Operating Humidity	**0 - 95% RH, non condensing**

PRODUCT FEATURES

- Provides 4 channels of input, compatible with voltage free mechanical switches
- Programmable by learn mode or using the C-Bus configuration software
- Programmed variables are stored in non-volatile memory and are retained in case of loss of mains or C-Bus power
- Small in size and volume, designed to fit into any wallbox
- CE (European Community) compliant



5104BCLWE illustrated

CATALOGUE NUMBER	DESCRIPTION
5104BCLWE	Bus coupler auxiliary input

Pascal Automation Controller

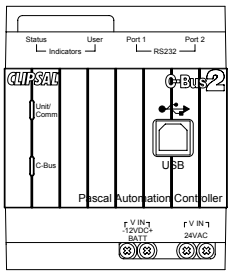
The Pascal Automation Controller (PAC) is a DIN rail mounted device that provides sophisticated and affordable control of a Clipsal C-Bus system. The PAC can perform operations in response to monitored events by executing custom written embedded programs. These programs are written by installers to suit individual application needs using the Microsoft Windows™ based programming interface for C-Bus embedded devices or 'PICED' software.

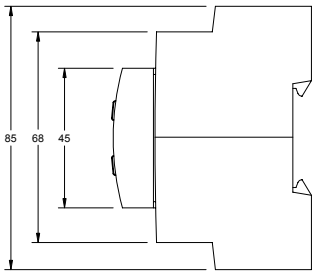
The PAC provides a USB interface through which programs are downloaded. The USB connection can also be used to communicate directly with a C-Bus installation via a PC. This allows the PAC to function as a PC Interface and can be used by the C-Bus Toolkit Software when configuring a C-Bus installation.

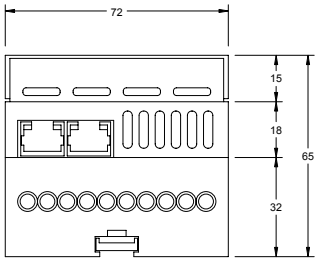
5500PACA

TECHNICAL INFORMATION

Catalogue Number	**5500PACA**
C-Bus Supply Voltage	**15-36VDC @ 32mA**
Battery Backup Supply Voltage	**12VDC @ 30mA**
Network Clock	**Software selectable**
Network Burden	**Software selectable**
Maximum Number of C-Bus Applications Supported	**10**
C-Bus Connections	**2 x RJ45 Sockets**
RS-232 Port Connectors	**2 x RJ45**
Dimensions	**72mm(W) x 92mm(H) x 63mm(D)**
Operating Temperature Range	**0˚C to 45˚C**
Operating Humidity Range	**10 - 95% RH**







5500PACA illustrated

PRODUCT FEATURES

- Conditional and real-time events programming for C-Bus
- Dedicated scheduling, logic and scene programming modules
- Connects to and powered by C-Bus
- Programmable using the C-Bus Toolkit Software
- Includes a built-in real time clock
- Compact size
- 2 x RS-232 ports for third party device control
- CE (European Community) compliant

CATALOGUE NUMBER	DESCRIPTION
5500PACA	Pascal Automation Controller

Indoor Motion Sensor, 90 Degrees

The indoor occupancy sensors are surface mounted, input units used to detect movement by sensing natural thermal radiation emitted from any moving body. When movement is detected, the unit issues commands over the C-Bus network to control C-Bus output devices. In addition, the unit features a light level sensor to automatically switch lighting on, under low light conditions.

The sensor has a detection field that covers an area up to 8.5 metres from the unit, with a field of view of 90 degrees. The unit features a 'lens less' design with 12 overlapping zones forming a continuous detection field, therefore resulting in uniform sensitivity across the whole of the detection field, with no dead zones. This features allows the sensor to be ceiling or wall mounted.

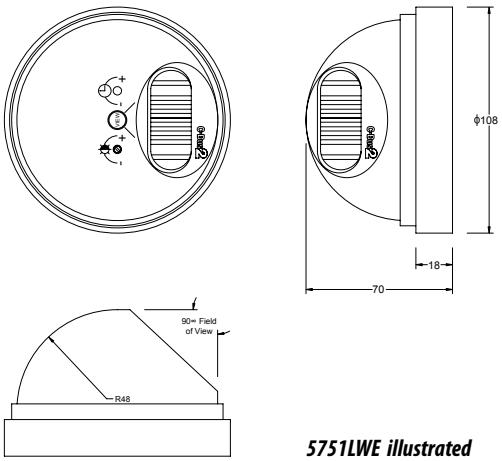
The sensor features learn mode, which permits the unit to be programmed without the need for a PC connected to the system.

The sensor features an environmental rating of IP44 and is suitable for indoor applications. The sensor is designed for surface mount applications, and located in the corner of the room where detection is required.

5751LWE

TECHNICAL INFORMATION

Catalogue Number	**5751LWE**	**E5751L**
Base, Mounting Centres	**84mm**	**60.3mm**
C-Bus Supply Voltage	**15-36VDC @ 18mA**	
Timer Range	**Programmable, 1 sec - 18 hrs**	
Timer Resolution	**1 sec**	
Light Threshold Adjustment	**User adjustable, 1 Lux to full sunlight**	
Mounting Height	**2.4m nominal, (2.0 to 3.2m)**	
Field of View	**90 degrees**	
Detection Area	**6m x 6m**	
Maximum Number of Units on a Single C-Bus Network	**100**	
Status Indicator	**Walk test LED**	
Warm Up Time	**5 seconds**	
IP Rating	**IP44**	
C-Bus Termination	**Fly lead x 2**	
Operating Temperature Range	**0˚C to 45˚C**	
Operating Humidity Range	**0 - 95% RH, non-condensing**	



5751LWE illustrated

PRODUCT FEATURES

- Programmable by learn mode or using the C-Bus Toolkit Software
- Programmed variables are stored in non-volatile memory and are retained in case of loss of mains or C-Bus power
- Programmable walk test LED for commissioning
- User adjustable light level threshold, from low light (1 Lux) to full sunlight
- Dual element detectors to minimise false triggering.
- Optical bandpass filter minimises unwanted heat sources from triggering the circuitry
- CE (European Community) compliant

CATALOGUE NUMBER	DESCRIPTION
5751LWE	PIR indoor occupancy sensor-learn

Indoor Motion Sensor, 360 Degrees

The indoor occupancy sensors are flush mounted, input units used to detect movement by sensing natural thermal radiation emitted from any moving body. When movement is detected, the unit issues commands over the C-Bus network to control C-Bus output devices. In addition, the unit features a light level sensor to automatically switch lighting on, under low light conditions.

The sensor has a detection field that covers an elliptical area up to 12m x 14m, with a field of view of 360 degrees. The unit features a multi-segmented Fresnel lens design, for superior detection capability.

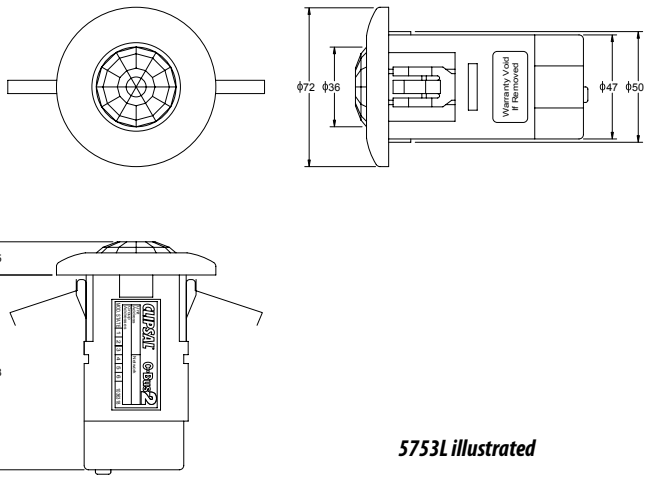
The sensor features learn mode, which permits the unit to be programmed without the need for a PC connected to the system.

The sensor features an environmental rating of IP44 and is suitable for indoor applications. The sensor is compact in size, and is designed for flush mount applications, located at the centre of the detection area.

5753L

TECHNICAL INFORMATION

Catalogue Number	**5753L**
C-Bus Supply Voltage	**15-36VDC @ 18mA**
Timer Range	**Programmable, 1 sec - 18 hrs**
Timer Resolution	**1 sec**
Light Threshold Adjustment	**User adjustable, 1 Lux to full sunlight**
Mounting Height	**2.4m nominal, (2.0 to 3.2m)**
Field of View	**360 degrees**
Detection Area	**12m x 14m**
Maximum Number of Units on a Single C-Bus Network	**100**
Status Indicator	**Walk test LED**
Warm Up Time	**5 seconds**
IP Rating	**IP44**
C-Bus Termination	**Screw terminals**
Operating Temperature Range	**0˚C to 45˚C**
Operating Humidity Range	**0 - 95% RH, non-condensing**



5753L illustrated

PRODUCT FEATURES

- Programmable by learn mode or using the C-Bus Toolkit Software
- Programmed variables are stored in non-volatile memory and are retained in case of loss of mains or C-Bus power
- Programmable walk test LED for commissioning
- User adjustable light level threshold, from low light (1 Lux) to full sunlight
- Dual element detectors to minimise false triggering
- Optical bandpass filter minimises unwanted heat sources from triggering the circuitry
- Designed for flush mount applications, protrudes only 8mm
- CE (European Community) compliant

CATALOGUE NUMBER	DESCRIPTION
5753L	Indoor occupancy sensor, 360 degrees

Outdoor Motion Sensor, 110 Degrees

The outdoor occupancy sensors are surface mounted, input units used to detect movement by sensing natural thermal radiation emitted from any moving body. When movement is detected, the unit issues commands over the C-Bus network to control C-Bus output devices. In addition, the unit features a light level sensor to automatically switch lighting on, under low light conditions.

The sensor has a detection field that covers an area up to 18 metres from the unit, with a field of view of 110 degrees. Advanced microprocessor circuit technology and a flat multi-segmented lens, divide the field of view into 28 zones located at four different levels. This ensures immediate reaction of body movement and reduces the number of 'dead zones' that can be penetrated.

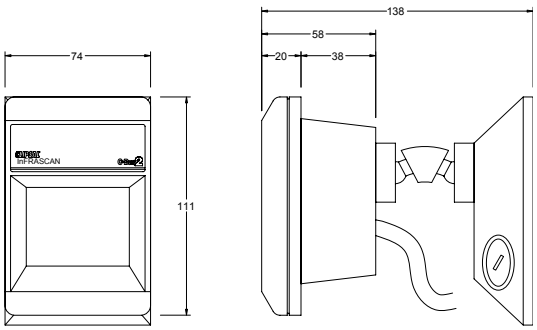
The sensor features learn mode, which permits the unit to be programmed without the need for a PC connected to the system.

The sensor features an environmental rating of IP66 and is suitable for outdoor applications.

E5750WPL

TECHNICAL INFORMATION

Catalogue Number	**E5750WPL**
Base, Mounting Centres	**60.3mm**
C-Bus Supply Voltage	**15-36VDC @ 18mA**
Timer Range	**Programmable, 1 sec - 18 hrs**
Timer Resolution	**1 sec**
Light Threshold Adjustment	**User adjustable, 1 Lux to full sunlight**
Mounting Height	**2.4m nominal, (2.0 to 3.2m)**
Field of View	**110 degrees**
Detection Area	**18m radius x 110 degrees**
Lens Type	**Frensel, multi-segmented**
Maximum Number of Units on a Single C-Bus Network	**100**
Status Indicator	**Walk test LED**
Warm Up Time	**5 seconds**
C-Bus Termination	**Fly lead x 2**
IP Rating	**IP66**
Operating Temperature Range	**0˚C to 45˚C**



E5750WPL illustrated

PRODUCT FEATURES

- Programmable by learn mode or using the C-Bus Toolkit Software
- Programmed variables are stored in non-volatile memory and are retained in case of loss of mains or C-Bus power
- Programmable walk test LED for commissioning
- User adjustable light level threshold, from low light (1 Lux) to full sunlight
- Dual element detectors to minimise false triggering
- Optical bandpass filter minimises unwanted heat sources from triggering the circuitry
- CE (European Community) compliant

CATALOGUE NUMBER	DESCRIPTION
E5750WPL	Outdoor PIR

Indoor Multi-Sensor, 360 Degrees

The indoor occupancy sensors are surface mounted, input units used to detect movement by sensing natural thermal radiation emitted from any moving body. When movement is detected, the unit issues commands over the C-Bus network to control C-Bus output devices. In addition, the unit features a light level sensor to automatically switch lighting on, under low light conditions.

The sensor has a detection field that covers an area up to 8.5 metres from the unit, with a field of view of 90 degrees. The unit features a 'lens less' design with 12 overlapping zones forming a continuous detection field, therefore resulting in uniform sensitivity across the whole of the detection field, with no dead zones. This feature allows the sensor to be ceiling or wall mounted.

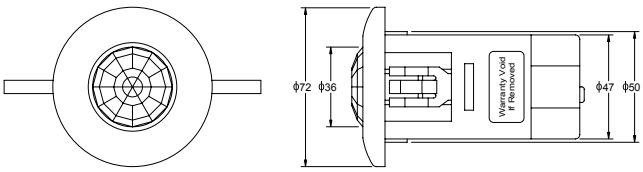
The sensor features learn mode, which permits the unit to be programmed without the need for a PC connected to the system.

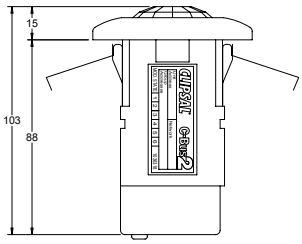
The sensor features an environmental rating of IP44 and is suitable for indoor applications. The sensor is designed for surface mount applications, and located in the corner of the room where detection is required.

5753PEIRL

TECHNICAL INFORMATION

Catalogue Number	**5753PEIRL**
C-Bus Supply Voltage	**15-36VDC @ 18mA**
Timer Range	**Programmable, 1 sec - 18 hrs**
Timer Resolution	**1 sec**
Light Threshold Adjustment	**Programmable, 1 Lux to full sunlight**
Light Regulation	**40 - 3000 Lux**
Mounting Height	**2.4m nominal, (2.0 to 3.2m)**
Field of View	**360 degrees**
Detection Area	**Programmable, up to 12m x 8.5m**
IR Receiver	**Remote enabled/disable control**
Maximum Number of Units on a Single C-Bus Network	**100**
Status Indicator	**Walk test and IR receive LED**
Warm Up Time	**5 seconds**
IP Rating	**IP44**
C-Bus Termination	**Screw terminals**
Operating Temperature Range	**0˚C to 45˚C**
Operating Humidity Range	**0 - 95% RH, non-condensing**





5753PEIRL illustrated

PRODUCT FEATURES

- Programmable by learn mode or using the C-Bus Toolkit Software
- Programmed variables are stored in non-volatile memory and are retained in case of loss of mains or C-Bus power
- Programmable walk test LED for commissioning
- User adjustable light level threshold, from low light (1 Lux) to full sunlight
- Dual element detectors to minimise false triggering
- Optical bandpass filter minimises unwanted heat sources from triggering the circuitry
- CE (European Community) compliant

CATALOGUE NUMBER	DESCRIPTION
5753PEIRL	PIR light level IR combination sensor

Light Level Sensors

The light level sensors are surface mounted input units used to measure ambient light levels and regulate lighting loads.

The sensor has a field of view of 180 degrees and is capable of measuring lighting levels in the range of 20 to 3000 lux and regulating lighting in the range of 40 to 1600 lux, which is suitable for most commercial applications.

The light level sensor may be used in conjunction with non-dimmable ballasts to bank switch luminairies or with dimmable electronic ballasts to regulate lighting levels continuously, within a programmed target range.

The unit features built in lag, to prevent rapid changes in output, due to changes in environmental conditions, such as cloud cover or rapid movement through the detection area.

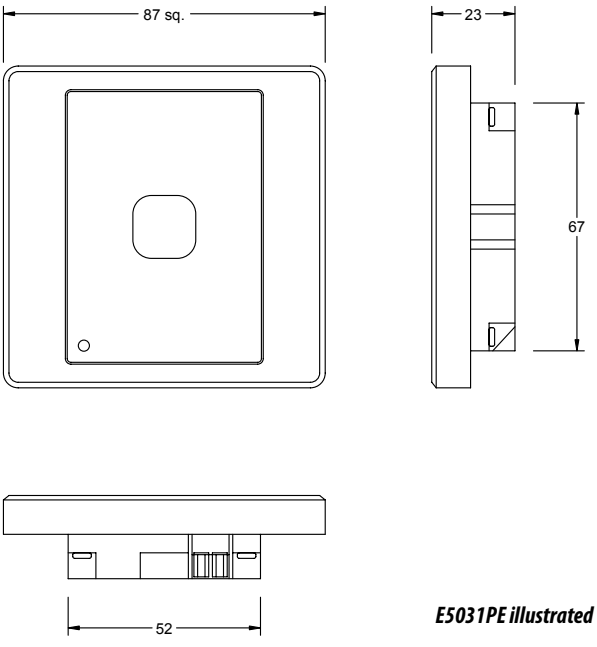
E5031PE

TECHNICAL INFORMATION

C-Bus Supply Voltage	**15-36VDC @ 18mA**
Light Level (measure)	**20 - 3000 lux**
Light Level (regulate)	**40 - 1600 lux**
Field of View	**180 degrees**
Time Constant	**Approx. 90 seconds**
Mounting Height	**2.4m nominal, (2.0 to 3.2m)**
Field of View	**180 degrees**
Maximum Number of Units on a Single C-Bus Network	**100**
Status Indicator	**Programmable**
Warm Up Time	**5 seconds**
C-Bus Termination	**Screw terminals**
Standard Colours	**White**
Operating Temperature	**0˚C to 45˚C**
Operating Humidity	**0 - 95% RH, non condensing**

PRODUCT FEATURES

- Programmable using the C-Bus configuration software
- Programmed variables are stored in non-volatile memory and are retained in case of loss of mains or C-Bus power
- Programmable target light level and margin
- Bank switching or light level regulation
- CE (European Community) compliant



E5031PE illustrated

CATALOGUE NUMBER	DESCRIPTION
E5031PE	Light level sensor, 40-1600 lux
IP66 Weatherproof Series	
***5031PEWPGY**	Light level sensor, IP66

***Ask for availability**

Clock Modules

The clock modules are surface mounted, input units used to provide basic timing functions and convenient control of C-Bus output units.

The clock modules are 7-day timers, featuring 42 program storage locations for event programming. Events may be programmed up to 6 days in advance and event durations may be up to 99 days.

The clock modules are powered from the two wire C-Bus connection, they feature a rechargeable power storage that maintains the clock for up to 24 hours, in the event of loss of the C-Bus power supply.

The clock modules also feature a daylight saving option and random check generator from 5 to 60 minutes.

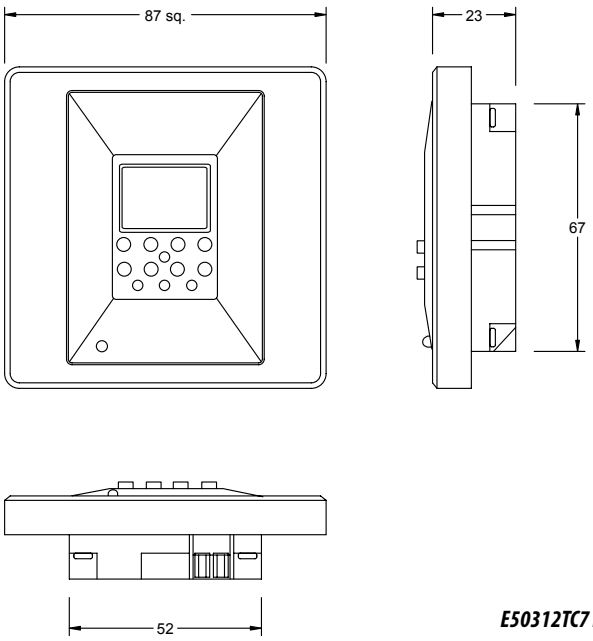
E50312TC7

TECHNICAL INFORMATION

C-Bus Supply Voltage	**15-36VDC @ 18mA**
Timer	**7 day**
Number of Channels	**2**
Memory Locations	**42**
Accuracy	**2.5 sec/day @ 20˚C**
Timer Resolution	**1 minute**
Running Reserve	**24 hours (without C-Bus power)**
Reserve Charge Time	**2 minutes**
Daylight Saving Mode	**Yes**
Random Event Generator	**5 to 60 minutes**
Display	**Iconic LCD display, grey scale**
Maximum Number of Units on a Single C-Bus Network	**100**
Status Indicator	**Programmable**
Warm Up Time	**5 seconds**
C-Bus Termination	**Screw terminals**
Standard Colours	**White**
Operating Temperature	**0˚C to 45˚C**
Operating Humidity	**0 - 95% RH, non condensing**

PRODUCT FEATURES

- Programmable using the C-Bus configuration software
- Programmed variables are stored in non-volatile memory and are retained in case of loss of mains or C-Bus power
- Reserve power backup in case of loss of C-Bus supply
- CE (European Community) compliant



E50312TC7 illustrated

CATALOGUE NUMBER	DESCRIPTION
***E50312TC7**	Clock module 7day vertical

***Ask for availability**

Telephone Interface

The telephone interface unit provides a remote telephone interface to the C-Bus network. The dial in, dial out facility permits the user to dial in and navigate a voice prompt menu to monitor and control devices on the C-Bus network from a remote location. Control is exercised using the DTMF keypad on the phone.

The telephone interface facilities a connection to the C-Bus network for remote programming of the units using the C-Bus Toolkit Software.

An audio output is also included so that C-Bus events can be audibly announced. The telephone interface connects to either the public switched telephone network (PSTN) or to a local PABX.

The telephone interface unit includes the facility to issue voice prompts, send commands, report status and to obtain operator responses using DTMF tones. The responses are turned into actions on a C-Bus network.

For added security, the telephone interface requires the telephone user to enter a user profile number and password to access the voice prompt menus. Upon receipt of the correct password, the unit activates a voice prompt menu and directs the user to available actions or more menus.

The telephone interface incorporates a history log, is supplied pre-loaded with a standard library of words and phrases and supports multiple languages.

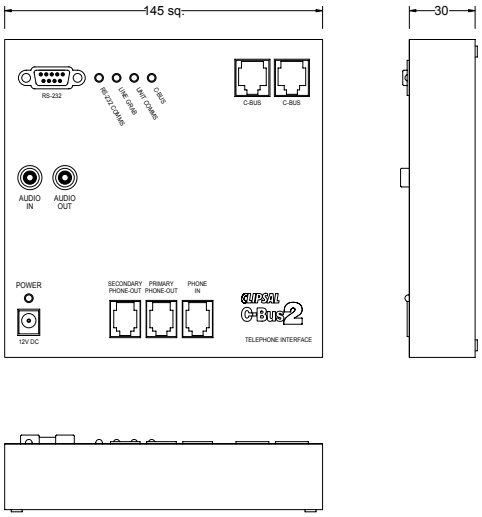
E5100TAU

TECHNICAL INFORMATION

Catalogue Numbers	**E5100TAU**
C-Bus Supply Voltage	**15 - 36VDC @ 20mA**
CBTI Power Supply	**12VDC or 15VAC, 50/60Hz power pack not included**
Status Indicators	**C-Bus, Line Grab, Serial Comms. and Internal Comms.**
Modes	**Home and Away**
C-Bus Connection	**2 x RJ45 sockets**
PC Interface Connection	**DB9 socket**
Telephone Connection	**3 x RJ12 sockets (1 incoming/2 outgoing)**
Audio Connection	**2 RCA sockets (in/out)**
Network Burden	**Software selectable**
System Clock	**Software selectable**
Voice Library	**User programmable**
Operating Temperature Range	**0˚C to 45˚C**
Operating Humidity Range	**0 - 95% RH, non-condensing**

PRODUCT FEATURES

- Programmable using the C-Bus telephone interface configuration software
- Programmed variables are stored in non-volatile memory and are retained in case of loss of C-Bus power
- Audio out (line out) to annunciate messages
- Includes user profile number and password to access voice prompt menus
- Remote programming of the C-Bus devices
- Supports communication through C-Bus network bridges
- CE (European Community) compliant



E5100TAU illustrated

CATALOGUE NUMBER	DESCRIPTION
***E5100TAU**	Telephone interface module

***Ask for availability**

System Units

Ethernet Network Interface

The Ethernet network interface is a C-Bus device designed to provide an isolated communications path between an Ethernet 10 Base-T network and C-Bus network. This allows high-speed control and monitoring of a C-Bus installation via the TCP/IP protocols used in computer networks and by the Internet.

The network interface is a near instantaneous connection to a C-Bus network. It provides a gateway between high-speed, high bandwidth Ethernet communication and the robust, time tested Clipsal C-Bus control system.

In addition to programming, the network interface provides similar convenience for third party applications to issue commands to a C-Bus network and monitor the behavior of units on the network. The network interface is assigned an IP address, just like a PC on a computer network. Once an IP address is assigned it is possible for a myriad of applications, applets and third party system to send C-Bus commands to the C-Bus network remotely.

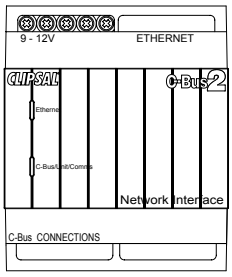
E5500CN

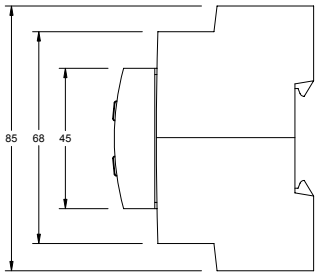
TECHNICAL INFORMATION

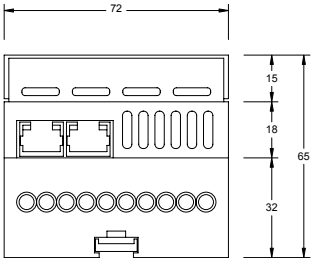
Catalogue Number	**E5500CN**
C-Bus Supply Voltage	**15-36VDC @ 22mA**
Ethernet Supply Voltage	**9-12VAC/DC**
Network Speed	**10 Base-T**
Network Protocol	**TCP/IP**
Status Indicators	**Network and C-Bus**
Network Burden	**Software selectable**
System Clock	**Software selectable**
C-Bus Termination	**2 x RJ45 sockets**
Ethernet Termination	**1 x RJ45 socket, shielded**
Power Pack	**Not included**
Operating Temperature Range	**0˚C to 45˚C**
Operating Humidity Range	**0 - 95% RH, non-condensing**

PRODUCT FEATURES

- Provides a TCP/IP interface to the C-Bus network
- Provides high-speed backbone communications path
- Permits any size C-Bus networks, overcomes restrictions of network size when Network Bridges are used
- Programmable via the C-Bus configuration software
- Programmed variables are stored in non-volatile memory and are retained in case of loss of C-Bus power
- Designed to fit standard 35mm top hat DIN rail, measures just 4M in size
- Designed to fit into standard electrical switchboards
- CE (European Community) compliant







E5500CN illustrated

CATALOGUE NUMBER	DESCRIPTION
E5500CN	Computer network interface, 10 Base-T

PC Interface

5500PC

5500PCU

The PC Interface is a C-Bus device designed to provide an isolated, bi-directional, interface between the PC and the C-Bus network. Through the PC Interface, C-Bus units can be programmed, commands can be issued and activity on the C-Bus network can be monitored.

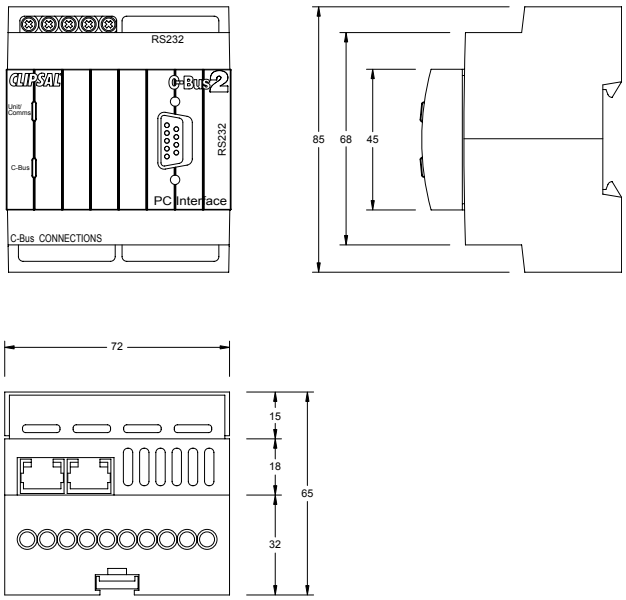
Installation of the PC Interface on the C-Bus network requires connection to the Category 5 unshielded twisted pair network cable.

TECHNICAL INFORMATION

C-Bus Supply Voltage	**15-36VDC @ 32mA**
Status Indicators	**Unit and C-Bus**
Network Burden	**Software selectable**
System Clock	**Software selectable**
C-Bus Termination	**2 x RJ45 sockets**
Operating Temperature Range	**0˚C to 45˚C**
Operating Humidity Range	**0 - 95% RH, non-condensing**

PRODUCT FEATURES

- Provides a serial interface to the C-Bus network
- C-Bus units may be configured, monitored or controlled via the serial connection
- Programmed variables are stored in non-volatile memory and are retained in case of loss of C-Bus power
- Designed to fit standard 35mm top hat DIN rail, measures just 4M in size
- Designed to fit into standard electrical switchboards
- CE (European Community) compliant



5500PC illustrated

CATALOGUE NUMBER	DESCRIPTION
5500PC	PC Interface RS232
5500PCU	PC Interface USB

Network Bridge

The network bridge is a network support device that provides an isolated communications channel between C-Bus units on separate networks. Both sides of the network bridge are optically isolated, providing electrical isolation between adjacent networks.

Network bridges are required to manage networks to particular units in particular zones, or to extend the network past system limitations of 100 passive units and 1000 metres of C-Bus cable in any one network.

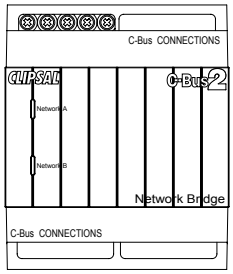
5500NB

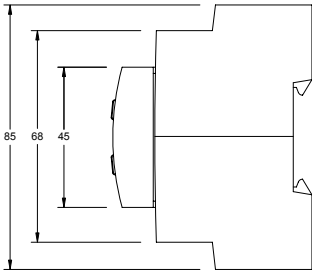
TECHNICAL INFORMATION

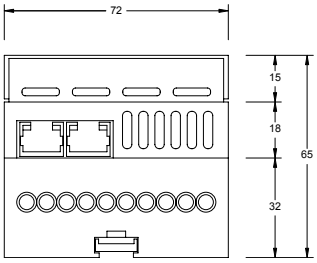
Catalogue Number	**5500NB**
C-Bus Supply Voltage	**15-36VDC @ 20mA**
Electrical Isolation rating (between networks)	**3,500V RMS (opto-isolated, 1 minute)**
Maximum Number of Units on a Single C-Bus Network	**100**
Status Indicators	**Network 1 and Network 2**
C-Bus Termination	**4 x RJ45 sockets (Network 1 and 2)**
Operating Temperature Range	**0˚C to 45˚C**
Operating Humidity Range	**0 - 95% RH, non-condensing**

PRODUCT FEATURES

- Provides an isolated communications path between networks
- Programmable via the C-Bus configuration software
- Programmed variables are stored in non-volatile memory and are retained in case of loss of C-Bus power
- Designed to fit standard 35mm top hat DIN rail, measures just 4M in size
- Designed to fit into standard electrical switchboards
- CE (European Community) compliant







5500NB illustrated

CATALOGUE NUMBER	DESCRIPTION
***5500NB**	Network bridge DIN rail

***Ask for availability**

Power Supply

The power supply converts the line voltage input to 36VDC output, required for correct operation by C-Bus devices. The power supply can source up to 350mA to the network and power supplies may be added in parallel as more C-Bus devices are added to the network, under these conditions the power supplies share the load current equally.

The power supplies feature short circuit and reverse polarity protection and the line voltage is galvonically isolated from the C-Bus output side.

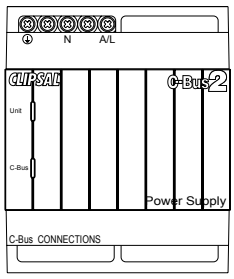
5500PS

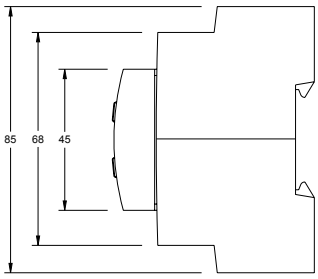
TECHNICAL INFORMATION

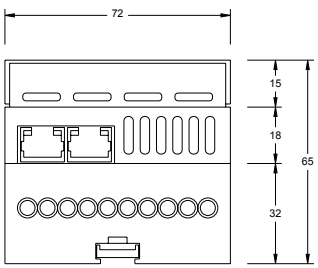
Catalogue Numbers	**5500PS**
Line Supply Voltage	**220-240VAC**
Supply Frequency	**47-53Hz**
Output Voltage	**32-39VDC**
Output Current	**350mA (maximum)**
Duration of Short Circuit on Output	**Indefinite**
AC Isolation Mains/C-Bus	**3,750V RMS**
Warm-Up Time	**3 seconds**
Number of C-Bus Units, Supported by one Power Supply (Standard passive unit = 18mA)	**19**
Maximum Number of Units on a Single C-Bus Network	**5**
Maximum Voltage Drop measured between Power Supply and Passive C-Bus Unit for correct operation	**10VDC**
Status Indicators	**Unit and C-Bus**
C-Bus Termination	**2 x RJ45 sockets**
Line Termination	**2 x 1.5mm² or 1 x 2.5mm²**
Operating Temperature Range	**0˚C to 45˚C**
Operating Humidity Range	**0 - 95% RH, non-condensing**

PRODUCT FEATURES

- Delivers up to 350mA to the C-Bus network
- High efficiency switched mode power supply design
- Units may be operated in parallel on the same network
- Does not require programming on installation
- Designed to fit standard 35mm top hat DIN rail, measures just 4M in size
- Designed to fit into standard electrical switchboards
- CE (European Community) compliant







5500PS illustrated

CATALOGUE NUMBER	DESCRIPTION
5500PS	Power supply 350mA

Network Analyser

The network analyser is a field diagnostic tool designed to measure and report the status of various network parameters.

The network analyser connects to the C-Bus network and is used to measure the network voltage, active clock and network impedance and determine if these are within acceptable limits for correct operation.

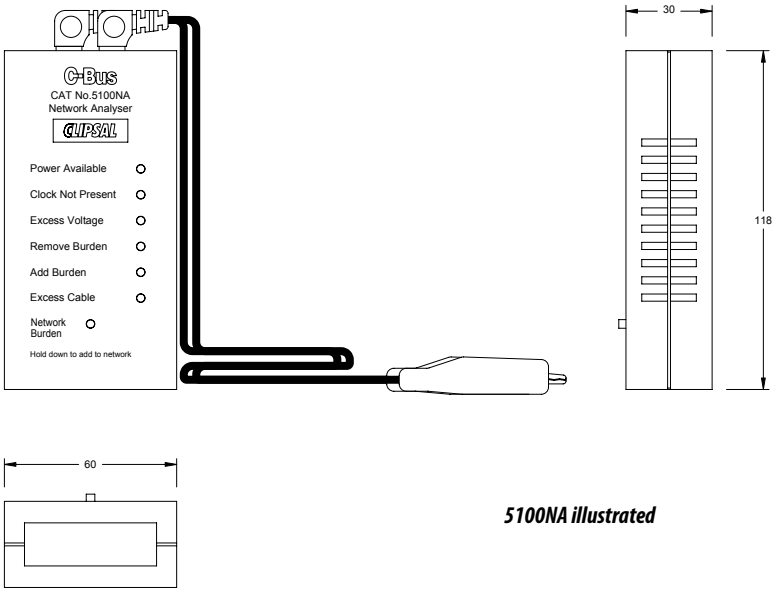
The unit displays the results by illuminating LEDs located on the unit.

Note: The network analyser should be used in conjunction with the C-Bus Calculator software application.

***5100NA**

TECHNICAL INFORMATION

Catalogue Numbers	**5100NA**
C-Bus Supply Voltage	**15-36VDC @ 20mA**
Status Indicators	**Power available** **Clock not present** **Excess voltage** **Remove burden** **Add burden** **Excess cable**
C-Bus Termination	**2 x Alligator clips**
Operating Temperature Range	**0˚C to 45˚C**
Operating Humidity Range	**0 - 95% RH, non-condensing**



5100NA illustrated

CATALOGUE NUMBER	DESCRIPTION
***5100NA**	Network analyser

***Ask for availability**

Network Cable

The C-Bus network cable is a Category 5, unshielded twisted pair cable specifically developed for use with the C-Bus control network. The cable features a unique pink coloured outer sheath for ease of identification.

The cable is recommended for all C-Bus installations, and is mandatory for certified sites. The cable provides immunity to induced noise from external sources and superior crosstalk performance.

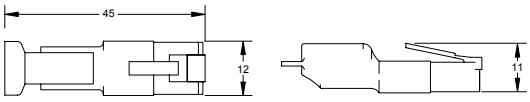
5005C305B

TECHNICAL INFORMATION

Catalogue Number	**5005C305B**
Data Grade Insulation	**100 +/- 15 Ohms**
Length	**305m (boxed)**
DC Resistance	**<93.8 Ohms/1000m @ 20˚C**
Sheath	**Coloured PVC (pink), type V75 C, nominal diameter 5.2mm**
SRL	**24.69dB at 33.11MHz**
Power Sum NEXT	**53.84dB at 7.59MHz**
Construction	**4-Pair 1/0.51 (0.2mm²), 24AWG**

CATALOGUE NUMBER	DESCRIPTION
5005C305B	Cable, 4-Pair, UTP, Cat 5, 305m

Network Burden



5500BURDEN illustrated

5500BURDEN

CATALOGUE NUMBER	DESCRIPTION
5500BURDEN	Network burden RJ45 (pack of 10)

Output Units

8 Channel Dimmer Range
Learn Enabled

The 8 channel dimmer units are DIN rail mounted units employing leading edge phase control circuitry for dimming control. These dimmer units feature learn mode, local and remote overrides for on/off control, channel, C-Bus and unit status indicators.

Each dimmer channel is rated at 1 Amp and is suitable for incandescent and low voltage lighting using magnetic and leading edge compatible transformers. The dimmer output is controllable over the range of 2-98%, while frequency tracking algorithms ensure flicker-free operation and smooth dimming control.

The dimmer units are available as passive and current sourcing models that source up to 200mA to the C-Bus network.

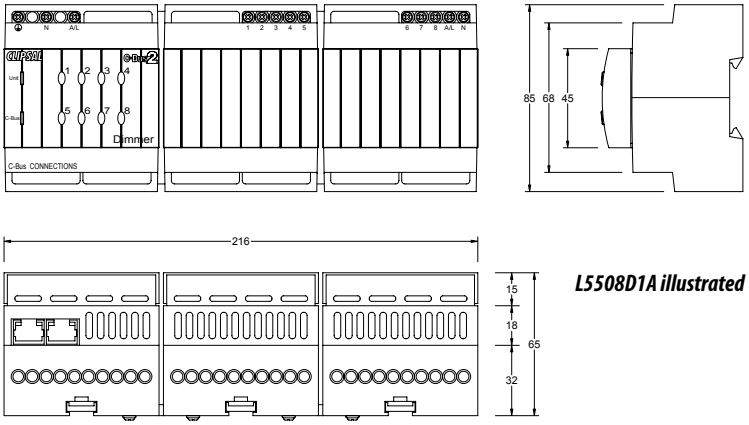
L5508D1A

TECHNICAL INFORMATION

Catalogue Number	L5508D1A	L5508D1AP
Line Supply Voltage	220-240VAC	
Supply Frequency	47-53Hz and 57-63Hz	
Frequency Drift	3Hz/minute (maximum)	
Frequency Step Change	0.1Hz (maximum)	
C-Bus Supply Voltage	15-36VDC @ 0mA	
Load Rating per Channel	1A	
Minimum Load	15W per channel	
Control Range	2 - 98%	
Compatible Loads	Incandescent and low voltage lighting. Ensure compatible leading edge electronic transformers are used.	
C-Bus Source Current	200mA	0mA
Maximum Number of Units on a Single C-Bus Network	10	100
Status Indicators	Channel Status (8), Unit and C-Bus	
Warm Up Time	5 seconds	
Network Clock	Software selectable	
Network Burden	Software selectable	
C-Bus Termination	2 x RJ45 Socket	
Load Termination	2 x 1.5mm² or 1 x 2.5mm²	
Operating Temperature Range	0˚C to 45˚C	
Operating Humidity Range	0 - 95% RH, non-condensing	

PRODUCT FEATURES

- Provides 8 x 1A channels of dimming control
- Programmable via the learn mode feature or using the C-Bus Toolkit Software
- Programmed variables are stored in non-volatile memory and are retained in case of loss of mains or C-Bus power
- Local and remote on/off control independent of C-Bus communications
- Programmable power up state following power cycling.
- Logic states (max/min) programmable using the C-Bus Toolkit Software
- Employs frequency-tracking algorithms for smooth flicker free operation
- Designed to fit standard 35mm top hat DIN rail, measures just 12M in size
- Designed to fit into standard electrical switchboards
- CE (European Community) compliant



L5508D1A illustrated

CATALOGUE NUMBER	DESCRIPTION
L5508D1AP	8 Channel dimmer 1A, 220/240VAC 50/60Hz
L5508D1A	8 Channel dimmer 1A, 220/240VAC 50/60Hz, C-Bus 200mA

4 Channel Dimmer Range
Learn Enabled

The 4 channel dimmer units are DIN rail mounted units employing leading edge phase control circuitry for dimming control. These dimmer units feature learn mode, local and remote overrides for on/off control, channel, C-Bus and unit status indicators.

Each dimmer channel is rated at 2 Amps and is suitable for incandescent and low voltage lighting using magnetic and leading edge compatible transformers. The dimmer output is controllable over the range of 2-98%, while frequency tracking algorithms ensure flicker-free operation and smooth dimming control.

The dimmer units are available as passive and current sourcing models that source up to 200mA to the C-Bus network.

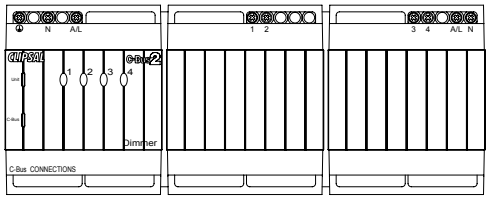
L5504D2A

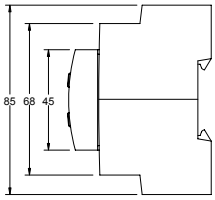
TECHNICAL INFORMATION

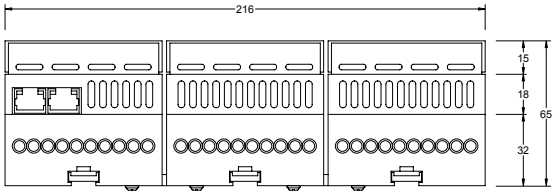
Catalogue Number	L5504D2A	L5504D2AP
Line Supply Voltage	220-240VAC	
Supply Frequency	47-53Hz and 57-63Hz	
Frequency Drift	3Hz/minute (maximum)	
Frequency Step Change	0.1Hz (maximum)	
C-Bus Supply Voltage	15-36VDC @ 0mA	
Load Rating per Channel	2A	
Minimum Load	15W per channel	
Control Range	2 - 98%	
Compatible Loads	Incandescent and low voltage lighting. Ensure compatible leading edge electronic transformers are used.	
C-Bus Source Current	200mA	0mA
Maximum Number of Units on a Single C-Bus Network	10	100
Status Indicators	Channel Status (4), Unit and C-Bus	
Warm Up Time	5 seconds	
Network Clock	Software selectable	
Network Burden	Software selectable	
C-Bus Termination	2 x RJ45 Socket	
Load Termination	2 x 1.5mm² or 1 x 2.5mm²	
Operating Temperature Range	0˚C to 45˚C	
Operating Humidity Range	0 - 95% RH, non-condensing	

PRODUCT FEATURES

- Provides 4 x 2A channels of dimming control
- Programmable via the learn mode feature or using the C-Bus Toolkit Software
- Programmed variables are stored in non-volatile memory and are retained in case of loss of mains or C-Bus power
- Local and remote on/off control independent of C-Bus communications
- Programmable power up state following power cycling
- Logic states (max/min) programmable using the C-Bus Toolkit Software
- Employs frequency-tracking algorithms for smooth flicker free operation
- Designed to fit standard 35mm top hat DIN rail, measures just 12M in size
- Designed to fit into standard electrical switchboards
- CE (European Community) compliant







L5504D2A illustrated

CATALOGUE NUMBER	DESCRIPTION
L5504D2AP	4 Channel dimmer 2A, 220/240VAC 50/60Hz
L5504D2A	4 Channel dimmer 2A, 220/240VAC 50/60Hz, C-Bus 200mA

Universal Dimmer Range
Learn Enabled

The Universal dimmers are DIN rail mounted C-Bus dimmers with automatic load sensing. These units can be used with leading edge or trailing edge compatible low voltage electronic transformers, as well as incandescent lamps and low voltage lamps with iron-core transformers. The units feature 4 independent channels of 2.5A output per channel, and are available with and without on-board 200mA C-Bus Power Supply and provide a software selectable Network Burden and C-Bus System Clock.

TECHNICAL INFORMATION

Catalogue number	L5504D2U	L5504D2UP
AC supply voltage	220 – 240V	
AC supply frequency	47 – 53Hz & 53 – 63Hz	
Single or 3 phase supply	1,2 or 3 phase	Single phase
AC supply frequency	47 – 53Hz & 53 – 63Hz	
Number of channels	4	
C-Bus learn enabled	Yes	
Maximum incandescent load per channel	2.5A	
Maximum iron core transformer load per channel	2.5A	
Maximum electronic transformer load per channel	2.5A	
Wall or DIN mounted	DIN	
No. of DIN modules wide	12 DIN modules	
Mains terminals	2 x 1.5mm^2 or 1 x 2.5mm^2	
Dimensions	215 x 85 x 65mm	
Maximum units on a network (255 networks)	10	100
C-Bus connections	2 x RJ45	

PRODUCT FEATURES

- Provides 4 x 2.5A channels of dimming control.
- Programmable via the learn mode feature or using the C-Bus Toolkit software.
- Provides 4 universal phase controlled dimming channels in a 12M wide DIN rail enclosure.

CATALOGUE NUMBER	DESCRIPTION
L5504D2U	4 Channel 2.5A per channel dimmer, 200mA Power Supply
L5504D2UP	4 Channel 2.5A per channel dimmer without power

3 Channel Professional Dimmers

The 3 channel Professional Dimmers designed for commercial applications such as hotels, restaurants and office buildings.

The dimmers are C-Bus controlled, high power, multi phase control units, compatible with a wide range of load types, including neon. Dimming is achieved through phase control techniques creating a highly efficient range of dimmers.

The Professional Dimmers provide on-board MCB protection and thermal overload protection, and contain modular output channel cards of various ratings, allowing customisation to suit site needs.

A maintained active output is provided on each channel for emergency lighting. Each channel card has a bypass switch which permits direct local override of the lighting circuit. In the event of an over-temperature condition, such as one caused by excessive load current, the dimmer channel reduces the output power.

The Professional Dimmer is designed and tested for a wide range of international markets with comprehensive EMC and electrical safety testing and is fully ROHS compliant.

TECHNICAL INFORMATION

Load terminal standby leakage current	**< 10 mA leading edge**
AC supply voltage	**240/415 V AC**
AC supply frequency	**47 to 53 Hz**
Number of input phases	**1 Phase (5 Amp model)**
	1 or 3 Phase (10 Amp model)
	3 Phase (other models)
Minimum load/channel	**20 W for incandescent**
Compatible Loads	**Incandescent and low voltage lighting. Ensure compatible leading edge electronic transformers are used.**
Dimming technology	**Leading edge 5 Amp; Triac**
	Leading edge 10-20 Amp; SCR
Soft-start ramp time	**0.5 sec**
Load current rise time	**200 µs**
Power control range	**1.5% to 95%**
Standby AC supply current	**90 mA base current**
	75 mA each LE Channel
Short circuit withstand strength	**6 kA**
Rated insulation voltage	**500 V**
Dielectric test voltage	**2500 V**

PRODUCT FEATURES

- Soft start load turn-on protects lamp filaments.
- Voltage compensation to minimise load brightness variation if the AC supply voltage drifts.
- Filtering reduces supply voltage signalling effects.
- Linear output load power following input control.
- C-Bus network burden and system clock generator.
- After mains fail, dimmers return to previous or preset values.
- Local C-Bus override switches on front panel.
- Channel Status indicators on front control panel.
- On-board MCB and optional RCD protection.
- Mounting brackets included for ease of installation.
- Generous load and mains supply terminals.
- Emergency lighting output for each channel.
- Manual dimmer bypass switch on all channels.
- Fan-free operation, reduces maintenance requirements.
- Suitable for single or three phase track lighting applications with optional three phase MCBs and RCDs
- CE (European Community) compliant

Contact Schneider Electric on 0870 608 8 608 for more information.

6 Channel Professional Dimmers

The 6 channel Professional Dimmers are designed for commercial applications such as hotels, restaurants and office buildings.

The dimmers are C-Bus controlled, high power, multi phase control units, compatible with a wide range of load types, including neon. Dimming is achieved through phase control techniques creating a highly efficient range of dimmers.

The Professional Dimmers provides on-board MCB protection and thermal overload protection, and contain modular output channel cards of various ratings, allowing customisation to suite site needs.

A maintained active output is provided on each channel for emergency lighting. Each channel card has a bypass switch which permits direct local override of the lighting circuit. In the event of an over-temperature condition, such as one caused by excessive load current, the dimmer channel reduces the output power.

The Professional Dimmer is designed and tested for a wide range of international markets with comprehensive EMC and electrical safety testing and is fully ROHS compliant.

TECHNICAL INFORMATION

Load terminal standby leakage current	**< 10 mA leading edge**
	< 1mA trailing edge
AC supply voltage	**240/415 V AC**
AC supply frequency	**47 to 53 Hz**
Number of input phases	**1 Phase (3 Amp model)** **1 or 3 Phase (10 Amp model)** **3 Phase (other models)**
Minimum load/channel	**20 W for incandescent**
Compatible Loads	**Incandescent and low voltage lighting.** **Ensure compatible leading edge electronic transformers are used.**
Dimming technology	**Leading edge 3-5 A Triac**
	Leading edge 10-20 A Dual SCR
Soft-start ramp time	**0.5 sec**
Load current rise time	**200 µs**
Power control range	**1.5% to 95%**
Standby AC supply current	**90 mA base current**
	75 mA each LE Channel
Short circuit withstand strength	**6 kA***
Rated insulation voltage	**500 V**
Dielectric test voltage	**2500 V**

*Note for 3 A model installer must connect dimmer to mains with protection rated at 20 A per phase 6 kA short circuit withstand strength

PRODUCT FEATURES

- Soft start load turn-on protects lamp filaments.
- Voltage compensation to minimise load brightness variation if the AC supply voltage drifts.
- Filtering reduces supply voltage signalling effects.
- Linear output load power following input control.
- C-Bus network burden and system clock generator.
- After mains fail, dimmers return to previous or preset values.
- Local C-Bus override switches on front panel.
- Channel Status indicators on front control panel.
- On-board MCB and optional RCD protection.
- Mounting brackets included for ease of installation.
- Generous load and mains supply terminals.
- Emergency lighting output for each channel.
- Manual dimmer bypass switch on all channels.
- Fan-free operation, reduces maintenance requirements.
- Suitable for single or three phase track lighting applications with optional three phase MCBs and RCDs
- CE (European Community) compliant

Contact Schneider Electric on 0870 608 8 608 for more information.

12 Channel Professional Dimmers

The 12 channel Professional Dimmers are designed for commercial applications such as hotels, restaurants and office buildings.

The dimmers are C-Bus controlled, high power, multi phase control units, compatible with a wide range of load types, including neon. Dimming is achieved through phase control techniques creating a highly efficient range of dimmers.

The Professional Dimmers provide on-board MCB protection and thermal load protection, and contain modular output channel cards of various ratings, allowing customisation to suite site needs.

A maintained active output is provided on each channel for emergency lighting. Each channel card has a bypass switch which permits direct local override of the lighting circuit. In the event of an over-temperature condition, such as one caused by excessive load, the dimmer channel reduces the output power.

The Professional Dimmer is designed and tested for a wide range of international markets with comprehensive EMC and electrical safety testing and is fully ROHS compliant.

TECHNICAL INFORMATION

Load terminal standby leakage current	**< 10 mA leading edge**
AC supply voltage	**240/415 V AC**
AC supply frequency	**47 to 53 Hz**
Number of input phases	**3 Phase**
	1 or 2 Phase (3 Amp model)
Minimum load/channel	**20 W for incandescent**
Compatible Loads	**Incandescent and low voltage lighting. Ensure compatible leading edge electronic transformers are used.**
Dimming technology	**Leading Edge 3-5A Triac**
	Leading Edge 10-20A Dual SCR
Soft-start ramp time	**0.5 sec**
Load current rise time	**200 µs**
Power control range	**1.5% to 95%**
Standby AC supply current	**90 mA base current**
	75 mA each LE Channel
Short circuit withstand strength	**6 kA**
Rated insulation voltage	**500 V**
Dielectric test voltage	**2500 V**

*Note for 3A model installer must connect dimmer to mains with protection rated at 20A per phase 6kA short circuit withstand strength

PRODUCT FEATURES

- Soft start load turn-on protects lamp filaments.
- Voltage compensation to minimise load brightness variation if the AC supply voltage drifts.
- Mounting brackets included for ease of installation.
- Suitable for single or three phase track lighting applications with optional 3 phase MCB's and RCD's
- Filtering to reduce supply voltage signalling effects.
- After mains fail, dimmer returns to previous or preset values.
- Linear output load power following input control.
- C-Bus network burden and network clock generator.
- Emergency lighting output for each channel.
- On-board MCB and/or RCD protection.
- Fan free operation, reduces maintenance requirements.
- Manual dimmer bypass switch on all channels.
- Local C-Bus override switches on front panel.
- Generous mains supply terminals and load terminals.
- Channel Status indicators on front control panel.
- CE (European Community) compliant

Contact Schneider Electric on 0870 608 8 608 for more information.

Single and Two Channel Relay Range
Non Learn Mode

The 1 and 2 channel relay units are panel mounted units suitable for switching resistive, inductive and fluorescent loads. The units are ideally suited for mounting inside fluorescent lighting products, street lighting columns and adjacent HID luminaires due to their small size and volume.

These relay units feature a remote override for on/off control and a C-Bus status indicator.

Load control is provided by a special dual contact relay designed for extreme long life with lighting loads, even with power factor corrected fluorescent lamps. One contact is tungsten designed to withstand high in-rush currents and arcing when opening and the other contact is silver alloy for steady state current operation.

The single channel relay also features a 0-10V output, and is compatible with dimmable electronic ballasts, hence the relay may be used to switch line voltage to the ballast as well as dim the output using the 0-10V output.

The relay units are available as passive models only, hence do not source current to the C-Bus network.

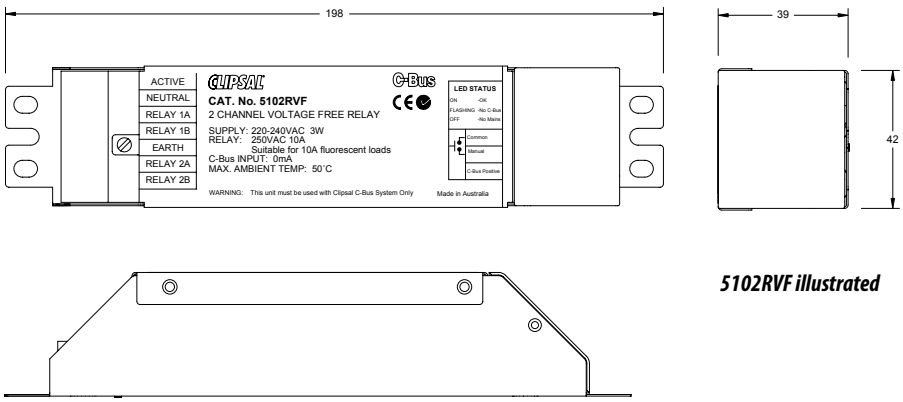
5102RVF

TECHNICAL INFORMATION

Catalogue Number	5101R	5102RVF
Line Supply Voltage	220-240VAC	
Supply Frequency	47-53Hz and 57-63Hz	
C-Bus Supply Voltage	15-36VDC @ 0mA	
Load Rating per Channel	10A AC3	
Contact Type	Switched active	Voltage free, normally open, non latched
Switch Operations	Greater than 60,000 operations	
In-Rush Current	120A (20msec)	
Compatible Loads	Resistive, inductive, incandescent and fluorescent	
Analog Output	0 - 10VDC, compatible with up to 2 x 36W immable electronic ballasts	-
C-Bus Source Current	0mA	
Maximum Number of Units on a Single C-Bus Network	100	
Status Indicators	C-Bus power available	
C-Bus Termination	Screw terminals	
Load Termination	Push connectors, 1 x 2.5mm^2	
Operating Temperature Range	0˚C to 45˚C	
Operating Humidity Range	0 - 95% RH, non-condensing	

PRODUCT FEATURES

- Programmable via the C-Bus Toolkit Software
- Programmed variables are stored in non-volatile memory and are retained in case of loss of mains or C-Bus power
- Remote on/off control independent of C-Bus communications
- Programmable power up state following power cycling
- Logic states (and/or) programmable using the C-Bus Toolkit Software
- Panel mounted, small size and volume
- CE (European Community) compliant



5102RVF illustrated

CATALOGUE NUMBER	DESCRIPTION
*5101R	1 Channel relay, 10A, Non Learn Enabled, non DIN
*5102RVF	2 Channel relay, 10A, Non Learn Enabled, non DIN

*Ask for availability

4 Channel 10A Relay Range
Learn Enabled

The 4 channel relay units are DIN rail mounted units suitable for switching resistive, inductive and fluorescent loads.

These relay units feature learn mode, local and remote overrides for on/off control, Channel, C-Bus and unit status indicators.

Load control is provided by a special dual contact relay designed for extreme long life with lighting loads, even with power factor corrected fluorescent lamps. One contact is tungsten designed to withstand high in rush currents and arcing when opening and the other contact is silver alloy for steady state current operation.

The relay units are available as passive and current sourcing models that source up to 200mA to the C-Bus network.

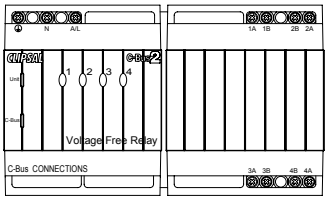
L5504RVF

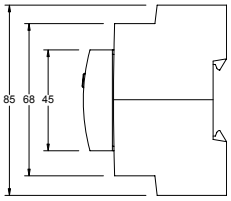
TECHNICAL INFORMATION

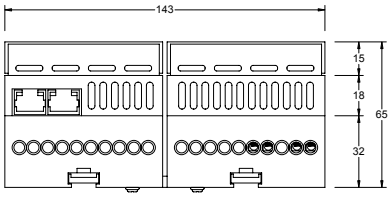
Catalogue Number	L5504RVF	L5504RVFP
Line Supply Voltage	220-240VA	
Supply Frequency	47-53Hz and 57-63Hz	
C-Bus Supply Voltage	15-36VDC @ 0mA	
Load Rating per Channel	10A	
Contact Type	Voltage free, normally open, magnetically latched	
Switch Operations	Greater than 60,000 operations	
In-Rush Current	120A (20msec)	
Compatible Loads	Resistive, inductive, incandescent and fluorescent	
C-Bus Source Current	200mA	0mA
Maximum Number of Units on a Single C-Bus Network	10	100
Status Indicators	Channel Status (4), Unit and C-Bus	
Network Clock	Software selectable	
Network Burden	Software selectable	
C-Bus Termination	2 x RJ45 Socket	
Load Termination	2 x 1.5mm² or 1 x 2.5mm²	
Operating Temperature Range	0˚C to 45˚C	
Operating Humidity Range	0 - 95% RH, non-condensing	

PRODUCT FEATURES

- Provides 4 x 10A channels of switching output
- Programmable via the learn mode feature or using the C-Bus Toolkit Software
- Programmed variables are stored in non-volatile memory and are retained in case of loss of mains or C-Bus power
- Local and remote on/off control independent of C-Bus communications
- Programmable power up state following power cycling
- Logic states (and/or) programmable using the C-Bus Toolkit Software
- Features magnetically latched relays that hold state in case of loss of C-Bus communications
- Designed to fit standard 35mm top hat DIN rail, measures just 8M in size
- Designed to fit into standard electrical switchboards
- CE (European Community) compliant







L5504RVF illustrated

CATALOGUE NUMBER	DESCRIPTION
L5504RVFP	4 Channel relay 10A, 220/240VAC 50/60Hz
L5504RVF	4 Channel relay 10A, 220/240VAC 50/60Hz, C-Bus 200mA

8 Channel 10A Relay Range
Learn Enabled

The 8 channel relay units are DIN rail mounted units suitable for switching resistive, inductive and fluorescent loads.

These relay units feature learn mode, local and remote overrides for on/off control, channel, C-Bus and unit status indicators.

Load control is provided by a special dual contact relay designed for extreme long life with lighting loads, even with power factor corrected fluorescent lamps. One contact is tungsten designed to withstand high in-rush currents and arcing when opening and the other contact is silver alloy for steady state current operation.

The relay units are available as passive and current sourcing models that source up to 200mA to the C-Bus network.

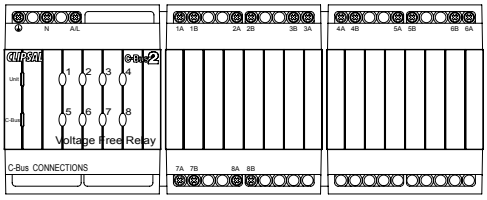
L5508RVF

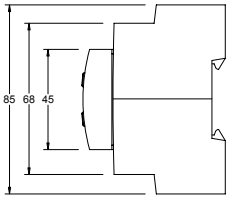
TECHNICAL INFORMATION

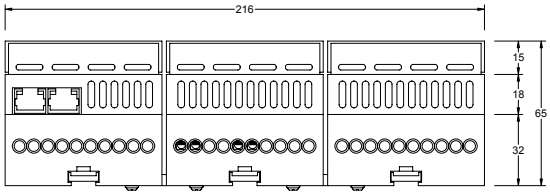
Catalogue Number	L5508RVF	L5508RVFP
Line Supply Voltage	220-240VAC	
Supply Frequency	47-53Hz and 57-63Hz	
C-Bus Supply Voltage	15-36VDC @ 0mA	
Load Rating per Channel	10A	
Contact Type	Voltage free, normally open, magnetically latched	
Switch Operations	Greater than 60,000 operations	
In-Rush Current	120A (20msec)	
Compatible Loads	Resistive, inductive, incandescent and fluorescent	
C-Bus Source Current		200mA 0mA
Maximum Number of Units on a Single C-Bus Network	10	100
Status Indicators	Channel Status (8), Unit and C-Bus	
Network Clock	Software selectable	
Network Burden	Software selectable	
C-Bus Termination	2 x RJ45 Socket	
Load Termination	2 x 1.5mm² or 1 x 2.5mm²	
Operating Temperature Range	0˚C to 45˚C	
Operating Humidity Range	0 - 95% RH, non-condensing	

PRODUCT FEATURES

- Provides 8 x 10A channels of switching output
- Programmable via the learn mode feature or using the C-Bus Toolkit Software
- Programmed variables are stored in non-volatile memory and are retained in case of loss of mains or C-Bus power
- Local and remote on/off control independent of C-Bus communications
- Programmable power up state following power cycling
- Logic states (and/or) programmable using the C-Bus Toolkit Software
- Features magnetically latched relays that hold state in case of loss of C-Bus communications
- Designed to fit standard 35mm top hat DIN rail, measures just 12M in size
- Designed to fit into standard electrical switchboards
- CE (European Community) compliant







L5508RVF illustrated

CATALOGUE NUMBER	DESCRIPTION
L5508RVFP	8 Channel relay 10A, 220/240VAC 50/60Hz
L5508RVF	8 Channel relay 10A, 220/240VAC 50/60Hz, C-Bus 200mA

12 Channel 10A Relay Range
Learn Enabled

The 12 channel relay units are DIN rail mounted units suitable for switching resistive, inductive and fluorescent loads.

These relay units feature learn mode, local and remote overrides for on/off control, Channel, C-Bus and unit status indicators.

Load control is provided by a special dual contact relay designed for extreme long life with lighting loads, even with power factor corrected fluorescent lamps. One contact is tungsten designed to withstand high in-rush currents and arcing when opening and the other contact is silver alloy for steady state current operation.

The relay units are available as passive and current sourcing models that source up to 200mA to the C-Bus network.

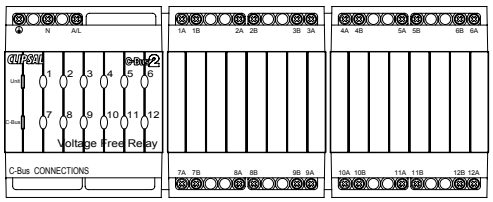
L5512RVF

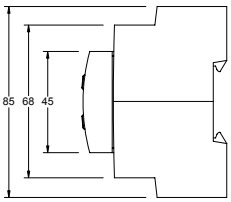
TECHNICAL INFORMATION

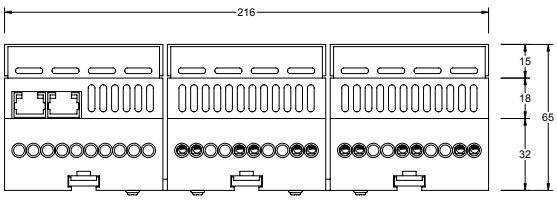
Catalogue Number	L5512RVF	L5512RVFP
Line Supply Voltage	220-240VAC	
Supply Frequency	47-53Hz and 57-63Hz	
C-Bus Supply Voltage	15-36VDC @ 0mA	
Load Rating per Channel	10A	
Contact Type	Voltage free, normally open, magnetically latched	
Switch Operations	Greater than 60,000 operations	
In-Rush Current	120A (20msec)	
Compatible Loads	Resistive, inductive, incandescent and fluorescent	
C-Bus Source Current	200mA	0mA
Maximum Number of Units on a Single C-Bus Network	10	100
Status Indicators	Channel Status (12), Unit and C-Bus	
Network Clock	Software selectable	
Network Burden	Software selectable	
C-Bus Termination	2 x RJ45 Socket	
Load Termination	2 x 1.5mm² or 1 x 2.5mm²	
Operating Temperature Range	0˚C to 45˚C	
Operating Humidity Range	0 - 95% RH, non-condensing	

PRODUCT FEATURES

- Provides 12 x 10A channels of switching output
- Programmable via the learn mode feature or using the C-Bus Toolkit Software
- Programmed variables are stored in non-volatile memory and are retained in case of loss of mains or C-Bus power
- Local and remote on/off control independent of C-Bus communications
- Programmable power up state following power cycling.
- Logic states (and/or) programmable using the C-Bus Toolkit Software
- Features magnetically latched relays that hold state in case of loss of C-Bus communications
- Designed to fit standard 35mm top hat DIN rail, measures just 12M in size
- Designed to fit into standard electrical switchboards
- CE (European Community) compliant







L5512RVF illustrated

CATALOGUE NUMBER	DESCRIPTION
L5512RVFP	12 Channel relay 10A, 220/240VAC 50/60Hz
L5512RVF	12 Channel relay 10A, 220/240VAC 50/60Hz, C-Bus 200mA

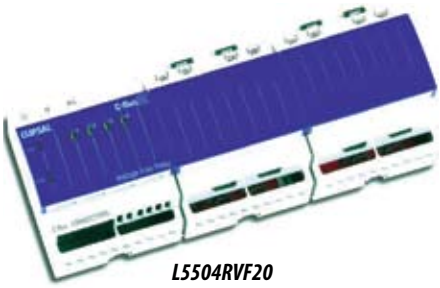
4 Channel 20A Relay Range
Learn Enabled

The 4 channel relay units are DIN rail mounted units suitable for switching resistive, inductive and fluorescent loads.

These relay units feature learn mode, local and remote overrides for on/off control, Channel, C-Bus and unit status indicators.

Load control is provided by a special mechanically latched relay, with local mechanical override on the unit, independent of the C-Bus communications. Each relay is rated at 20A, and is compatible with resistive, inductive, incandescent and fluorescent load types.

The relay units are available as passive and current sourcing models that source up to 200mA to the C-Bus network.



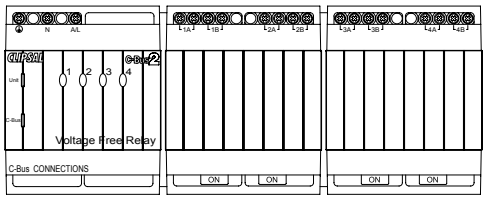
L5504RVF20

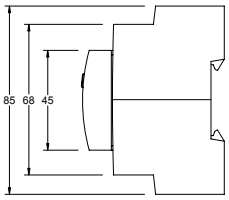
TECHNICAL INFORMATION

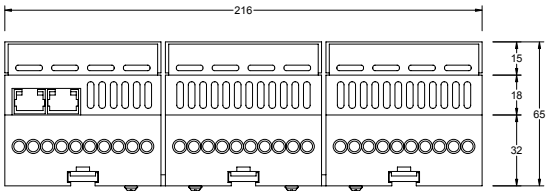
Catalogue Number	L5504RVF20	L5504RVF20P
Line Supply Voltage	220-240VAC	
Supply Frequency	47-53Hz and 57-63Hz	
C-Bus Supply Voltage	15-36VDC @ 0mA	
Load Rating per Channel	20A	
Contact Type	Voltage free, normally open, magnetically latched	
Switch Operations	Greater than 60,000 operations	
In-Rush Current	120A (20msec)	
Compatible Loads	Resistive, inductive, incandescent and fluorescent	
C-Bus Source Current	200mA	0mA
Maximum Number of Units on a Single C-Bus Network	10	100
Status Indicators	Channel Status (4), Unit and C-Bus	
Network Clock	Software selectable	
Network Burden	Software selectable	
C-Bus Termination	2 x RJ45 Socket	
Load Termination	2 x 1.5mm² or 1 x 2.5mm²	
Operating Temperature Range	0˚C to 45˚C	
Operating Humidity Range	0 - 95% RH, non-condensing	

PRODUCT FEATURES

- Provides 4 x 20A channels of switching output
- Programmable via the learn mode feature or using the C-Bus Toolkit Software
- Programmed variables are stored in non-volatile memory and are retained in case of loss of mains or C-Bus power
- Local and remote on/off control independent of C-Bus communications
- Mechanical override independent of C-Bus communications
- Programmable power up state following power cycling
- Logic states (and/or) programmable using the C-Bus Toolkit Software
- Features mechanically latched relays that hold state in case of loss of C-Bus communications
- Designed to fit standard 35mm top hat DIN rail, measures just 12M in size
- Designed to fit into standard electrical switchboards
- CE (European Community) compliant







L5504RVF20 illustrated

CATALOGUE NUMBER	DESCRIPTION
*L5504RVF20P	4 Channel relay 20A, 220/240VAC 50/60Hz
*L5504RVF20	4 Channel relay 20A, 220/240VAC 50/60Hz, C-Bus 200mA

*Ask for availability

4 Channel Relay Driver Range
Non Learn Mode

The 4 channel relay units are DIN rail mounted units designed to control up to four channels of external latching relay loads. The relay driver is used in conjunction with the relay modules type 5000RL20 (single channel 20A) and 5002RL20 (dual channel 20A).

These relay driver units feature a remote override for on/off control, C-Bus and unit status indicators. These units are low cost and do not feature learn mode or local override control.

The relay units are available as passive models only, and do not source current to the C-Bus network.

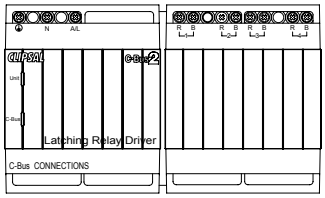
5504RDP

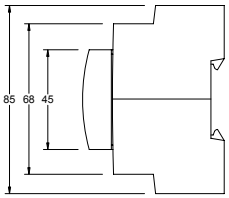
TECHNICAL INFORMATION

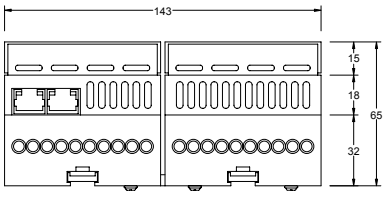
Catalogue Number	**5504RDP**
Line Supply Voltage	**220-240VAC**
Supply Frequency	**47-53Hz and 57-63Hz**
C-Bus Supply Voltage	**15-36VDC @ 0mA**
Driver Circuit	**Use only with 5000RL20 or 5002RL20**
C-Bus Source Current	**0mA**
Maximum Number of Units on a Single C-Bus Network	**100**
Status Indicators	**Unit and C-Bus**
Network Clock	**Software selectable**
Network Burden	**Software selectable**
C-Bus Termination	**2 x RJ45 Socket**
Load Termination	**2 x 1.5mm² or 1 x 2.5mm²**
Operating Temperature Range	**0˚C to 45˚C**
Operating Humidity Range	**0 - 95% RH, non-condensing**

PRODUCT FEATURES

- Capable of controlling up to four channels of external latching relay loads
- Programmable via the C-Bus Toolkit Software
- Programmed variables are stored in non-volatile memory and are retained in case of loss of mains or C-Bus power
- Remote on/off control independent of C-Bus communications
- Programmable power up state following power cycling
- Logic states (and/or) programmable using the C-Bus Toolkit Software
- Designed to fit standard 35mm top hat DIN rail, measures just 8M in size
- Designed to fit into standard electrical switchboards
- CE (European Community) compliant







5504RDP illustrated

CATALOGUE NUMBER	DESCRIPTION
***5504RDP**	4 Channel relay Driver

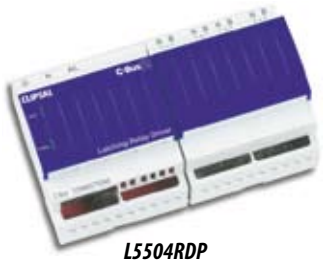
***Ask for availability**

4 Channel Relay Driver Range
Learn Enabled

The DIN Driver is a 8M DIN rail mounted product designed to operate in conjunction with the relay units, 5000RL20 and 5002RL20. The relay driver is a C-Bus device, learn enabled which supplies control signal (pulse output) to drive the external relay.

The advantages of the relay driver are, the external relay may be remotely mounted, and if a relay unit fails it may be replaced without the need to replace the relay drivers.

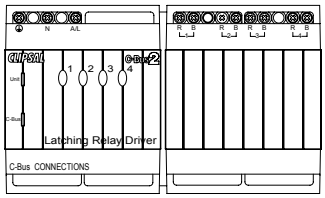
The relay driver features local overrides so the state of the external relay may be toggled from the unit.

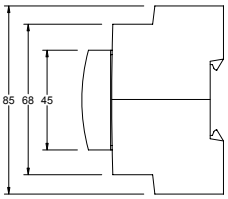


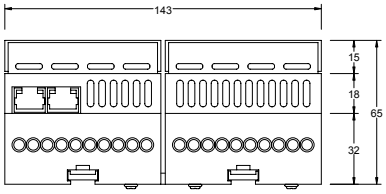
L5504RDP

TECHNICAL INFORMATION

Catalogue Number	**L5504RDP**
Line Voltage	**220-240VAC**
C-Bus Source Current	**0mA**
Maximum Number of Units on a Single C-Bus Network	**100**







L5504RDP illustrated

PRODUCT FEATURES

- Units available both with and without a 200mA C-Bus power supply on-board
- Configured via either the C-Bus Installation Software or via the Learn Enabled Features
- Local on/off toggle buttons allow individual channels to be manually overridden at each unit
- Remote on and off facilities permit all channels to be turned on or off without C-Bus network communication
- Incorporates C-Bus Network Status, Mains Power Status, and Load Status indicators
- Capable of generating a C-Bus clock signal if enabled
- CE (European Community) compliant
- Designed to fit standard 35mm top hat DIN rail, measures just 8M in size

CATALOGUE NUMBER	DESCRIPTION
***L5504RDP**	4 Channel relay Driver, C-Bus 200mA

***Ask for availability**

Single Relay Module

The single channel relay, is a heavy duty, mechanically latched, DIN rail mounted relay and is rated at 20 Amps continuous use. The relay can withstand high in-rush currents and is suitable for incandescent, high intensity discharge lamps and fluorescent loads.

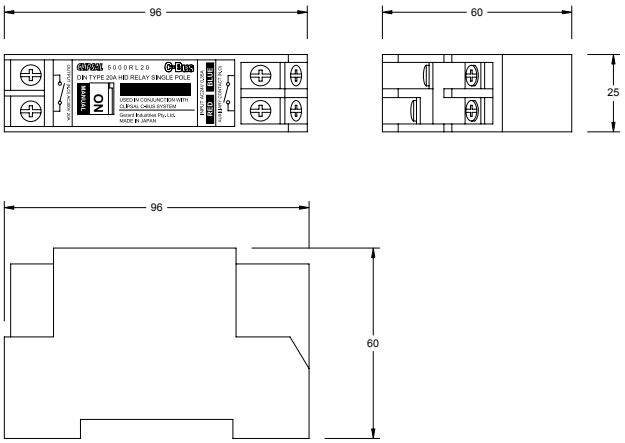
The relay module features a set of auxiliary contacts (normally open) and mechanical on/off control for manual operation.

The single channel relay must be used in conjunction with the 5504RDP or L5504RDP relay driver products.

5000RL20

TECHNICAL INFORMATION

Catalogue Number	**5000RL20**
Line Supply Voltage	**220-240VAC**
Supply Frequency	**47-53Hz and 57-63Hz**
Load Rating per Channel	**20A AC3**
Contact Type	**Voltage free, normally open, mechanically latched**
Switch Operations	**Greater than 30,000 operations**
Auxiliary Contacts	**Normally open**
In-Rush Current	**300A (80msec)**
Compatible Loads	**Resistive, inductive, incandescent and fluorescent**
Load Termination	**2 x 1.5mm² or 1 x 2.5mm²**
Dimensions	**1.5M (M = 17.5mm)**
Operating Temperature Range	**0˚C to 45˚C**
Operating Humidity Range	**0 - 95% RH, non-condensing**
Compliances	**RCM, CE**



5000RL20 illustrated

CATALOGUE NUMBER	DESCRIPTION
***5000RL20**	Single relay, 20A (High In-Rush Current)

***Ask for availability**

Dual Relay Module

The dual channel relay, is a heavy duty, mechanically latched, DIN rail mounted relay and is rated at 20 Amps continuous use. The relay can withstand high in-rush currents and is suitable for incandescent, high intensity discharge lamps and fluorescent loads.

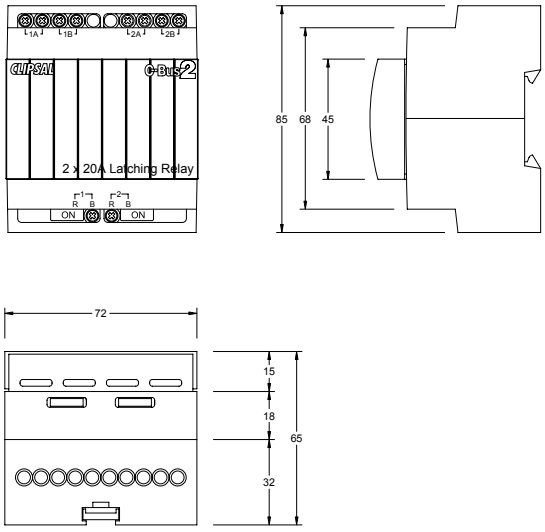
The relay module features mechanical on/off control for manual operation.

The dual channel relay must be used in conjunction with the 5504RDP or L5504RDP relay driver products.

5002RL20

TECHNICAL INFORMATION

Catalogue Number	**5002RL20**
Line Supply Voltage	**220-240VAC**
Supply Frequency	**47-53Hz and 57-63Hz**
Load Rating per Channel	**20A AC3**
Contact Type	**Voltage free, normally open, mechanically latched**
Switch Operations	**Greater than 60,000 operations**
In-Rush Current	**120A (20msec)**
Compatible Loads	**Resistive, inductive, incandescent and fluorescent**
Load Termination	**2 x 1.5mm² or 1 x 2.5mm²**
Dimensions	**4M (M = 17.5mm)**
Operating Temperature Range	**0˚C to 45˚C**
Operating Humidity Range	**0 - 95% RH, non-condensing**
Compliance	**RCM, CE**



5002RL20 illustrated

CATALOGUE NUMBER	DESCRIPTION
***5002RL20**	Dual relay, 20A

***Ask for availability**

4 Channel Changeover Relay Range
Learn Enabled

The 4 channel changeover relay units are DIN rail mounted units suitable for switching resistive, inductive and fluorescent loads.

These relay units feature learn mode, local and remote overrides for on/off control, Channel, C-Bus and unit status indicators.

Load control is provided by non-latched, changeover relays that feature both normally open (N.O.) and normally closed (N.C.) contacts. The changeover relays can be interlocked and have applications in curtain and blind controls (up/down) or 3 speed air-conditioning controls (on/off, low, medium and high).

The relay units are available as passive and current sourcing models that source up to 200mA to the C-Bus network.

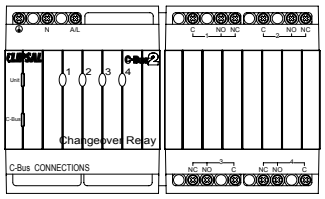
L5504RVFC

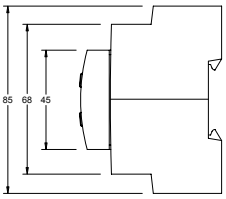
TECHNICAL INFORMATION

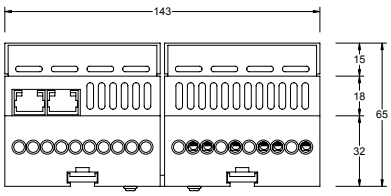
Catalogue Number	L5504RVFC	L5504RVFCP
Line Supply Voltage	220-240VAC	
Supply Frequency	47-53Hz and 57-63Hz	
C-Bus Supply Voltage	15-36VDC @ 0mA	
Load Rating per Channel	10A resistive, 5A inductive and incandescent, 1A fluorescent	
Contact Type	Voltage free, normally open, magnetically latched	
Switch Operations	Greater than 60,000 operations	
Compatible Loads	Resistive, inductive, incandescent and fluorescent	
C-Bus Source Current	200mA	0mA
Maximum Number of Units on a Single C-Bus Network	10	100
Status Indicators	Channel Status (4), Unit and C-Bus	
Warm Up Time	5 seconds	
Network Clock	Software selectable	
Network Burden	Software selectable	
C-Bus Termination	2 x RJ45 Socket	
Load Termination	2 x 1.5mm² or 1 x 2.5mm²	
Operating Temperature Range	0˚C to 45˚C	
Operating Humidity Range	0 - 95% RH, non-condensing	

PRODUCT FEATURES

- Provides 4 channels of changeover, non-latched relay outputs
- Programmable via the learn mode feature or using the C-Bus Toolkit Software
- Programmed variables are stored in non-volatile memory and are retained in case of loss of mains or C-Bus power
- Local and remote on/off control, independent of C-Bus communications
- Programmable power up state following power cycling
- Logic states (and/or) programmable using the C-Bus Toolkit Software
- Relays may be interlocked for curtain, blinds and 3 speed air-conditioning controls
- Designed to fit standard 35mm top hat DIN rail, measures just 8M in size
- Designed to fit into standard electrical switchboards
- CE (European Community) compliant







L5504RVFC illustrated

CATALOGUE NUMBER	DESCRIPTION
*L5504RVFCP	4 Channel changeover, relay 220/240VAC 50/60Hz
*L5504RVFC	4 Channel changeover, relay 220/240VAC 50/60Hz, C-Bus 200mA

***Ask for availability**

4 Channel Analogue Output Range
Learn Enabled

The 4 channel analogue output units are DIN rail mounted units designed to control 0 - 10V and 1 - 10V compatible dimmable electronic ballasts used in the lighting industry.

These analogue output units feature learn mode, local and remote overrides for on/off control, Channel, C-Bus and unit status indicators.

Each channel is capable of sourcing or sinking current and the number of ballasts that may be connected to the analogue output unit is a function of the current drain of that particular ballast.

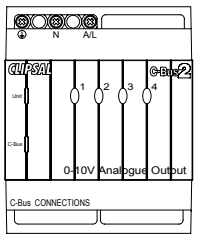
The analogue control signal typically regulates lighting output over the range of 3 - 100%. The dimming transitions are smooth and flicker free.

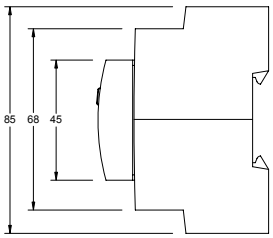
The analogue output units are available as passive models only, hence do not source current to the C-Bus network.

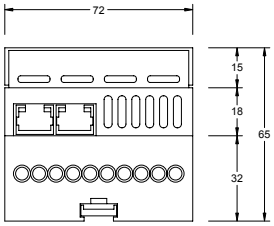
L5504AMP

TECHNICAL INFORMATION

Catalogue Number	**L5504AMP**
Line Supply Voltage	**220-240VAC**
Supply Frequency	**47-53Hz and 57-63Hz**
C-Bus Supply Voltage	**15-36VDC @ 0mA**
Output Control Range	**0-10VDC**
Control Range	**3 - 100%**
Source Current	**2.5mA**
Sink Current	**15mA at Vout = 0V, 8.0mA at Vout = 10V i.e. I = 15 - (0.7 Vout) mA**
Maximum Number of Units on Single C-Bus Network	**100**
Status Indicators	**Channel Status (4), Unit and C-Bus**
Warm Up Time	**5 seconds**
Network Clock	**Software selectable**
Network Burden	**Software selectable**
C-Bus Termination	**2 x RJ45 Socket**
Load Termination	**2 x 1.5mm² or 1 x 2.5mm²**
Operating Temperature Range	**0˚C to 45˚C**
Operating Humidity Range	**0 - 95% RH, non-condensing**







L5504AMP illustrated

PRODUCT FEATURES

- Provides 4 channels of 0 - 10V dimming control
- Programmable via the learn mode feature or using the C-Bus Toolkit Software
- Programmed variables are stored in non-volatile memory and are retained in case of loss of mains or C-Bus power
- Local and remote on/off control independent of C-Bus communications
- Programmable power up state following power cycling
- Logic states (max/min) programmable using the C-Bus Toolkit Software
- Designed to fit standard 35mm top hat DIN rail, measures just 8M in size
- Designed to fit into standard electrical switchboards
- CE (European Community) compliant

CATALOGUE NUMBER	DESCRIPTION
***L5504AMP**	4 Channel Analogue Output, 0-10V, 220/240VAC 50/60Hz

***Ask for availability**

Blind Control Relay

The Blind Control Relay units are designed to directly drive the motors for soft furnishing components like motorised blinds, curtains, shutters and awnings. The relay unit can be easily installed in the switchboard or in the field in the optional din-rail mount enclosure.

Designed with the installer in mind, this unit provides a easy to install module with features required to make direct motor control safe and simple.

L5501RBCP

TECHNICAL INFORMATION

Catalogue Number	**L5501RBCP**
C-Bus Supply Voltage	**15-36V DC @ 22mA required for normal operation. Does not provide current to the C-Bus Network**
AC Input Impedance	**80kΩ @ 1kHz**
Electrical Isolation	**3.75kV RMS from C-Bus to mains**
Max. Units per Network	**80**
Load Current Rating	**2A (motor load)**
Load Voltage Rating	**24V DC, 24-240V AC**
Warm Up Time	**5 seconds**
Network Clock Software	**Selectable**
Network Burden Software	**Selectable**
Class of Switch	**Class II**
Rated Impulse Withstand Voltage	**4 kV**
Operating Temperature	**0° to 45° C**
Operating Humidity	**10 to 95% RH**
Dimensions (W x H x D)	**36 x 93 x 63mm**
Weight	**250g**
Mains terminals	**Accommodates 2 x 1.5mm2 or 1 x 2.5mm2 (2 x 15AWG or 1 x 13AWG)**
Catalogue Number	**5501RE**
Dimensions (W x H x D)	**159 x 75 x 47mm**
Mounting Centres	**84mm**
Weight	**116g**

PRODUCT FEATURES

- Internally electrically interlocked directional contacts
- One, two or three button control from C-Bus switchplates or touchscreens
- Programmable time delays (0.5 – 4.0 seconds) between motor direction change
- Din-rail mounting or optional enclosure for field installation of unit
- Local manual override buttons to assist with setting end-limits.

L5501RBCP illustrated

5501RE illustrated

CATALOGUE NUMBER	DESCRIPTION
***L5501RBCP**	Blind Control Relay
***5501RE**	Enclosure for Blind Control Relay

***Ask for availability**

8 Channel DSI Gateway Range
Learn Enabled

The 8 channel DSI gateway units are DIN rail mounted units designed to control Atco-Tridonic brand dimmable electronic ballasts featuring the digital serial interface. These DSI units feature learn mode, local and remote overrides for on/off control, channel, C-Bus and unit status indicators.

Each DSI channel can drive up to 100 DSI ballasts allowing a total of 800 DSI ballasts to be connected to a single C-Bus/DSI gateway module.

The DSI gateway is capable of detecting faulty lamps connected to its terminals and issuing a message onto the C-Bus network. These messages can be read by C-Gate server application, when integrated as part of an overall building management system, lamp status may be reported to a central location.

The DSI units are available as passive and current sourcing models that source up to 200mA to the C-Bus network.

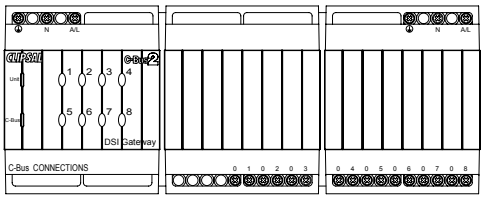
L5508DSI

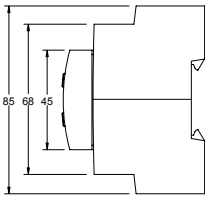
TECHNICAL INFORMATION

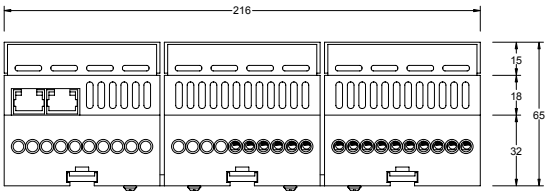
Catalogue Number	L5508DSI	L5508DSIP
Line Supply Voltage	220-240VAC	
Supply Frequency	47-53Hz and 57-63Hz	
C-Bus Supply Voltage	15-36VDC @ 0mA	
Load Rating per Channel	200mA (100 ballasts)	
Minimum Load	15W per channel	
Control Range	0 - 100%	
Compatible Loads	Tridonic DSI dimmable ballasts or equivalent	
Channel Output Voltage	0.0 - 0.8V (low) to 11.0 - 13.0V (high)	
C-Bus Source Current	200mA	0mA
Maximum Number of Units on a Single C-Bus Network	10	100
Status Indicators	Channel Status (8), Unit and C-Bus	
Warm Up Time	5 seconds	
Network Clock	Software selectable	
Network Burden	Software selectable	
C-Bus Termination	2 x RJ45 Socket	
Load Termination	2 x 1.5mm² or 1 x 2.5mm²	
Operating Temperature Range	0˚C to 45˚C	
Operating Humidity Range	0 - 95% RH, non-condensing	

PRODUCT FEATURES

- Provides 8 channels of DSI dimming control
- Programmable via the learn mode feature or using the C-Bus Toolkit software
- Programmed variables are stored in non-volatile memory and are retained in case of loss of mains or C-Bus power
- Local and remote on/off control independent of C-Bus communications
- Programmable power up state following power cycling
- Logic states (max/min) programmable using the C-Bus Toolkit Software
- Monitors and reports lamp state
- Designed to fit standard 35mm top hat DIN rail, measures just 8M in size
- Designed to fit into standard electrical switchboards
- CE (European Community) compliant







L5508DSI illustrated

CATALOGUE NUMBER	DESCRIPTION
L5508DSIP	8 Channel dimmer for DSI Ballast, 20A
L5508DSI	8 Channel dimmer for DSI Ballast, 20A, C-Bus 200mA

2 Channel DALI Gateway Range
Learn Enabled

The 2 channel DALI gateway units are DIN rail mounted units designed to control DALI compatible dimmable electronic ballasts and low voltage transformers.

Each DALI channel can drive up to 64 DALI devices allowing a total of 128 DALI devices to be connected to a single C-Bus/DALI gateway module.

With the DALI gateway each of the DALI devices are individually addressable. The DALI gateway also supports 16 groups of devices and 16 scenes, as well as global control over all devices.

The DALI gateway provides two-way communications between C-Bus and DALI devices, in this way C-Bus messages may be routed to DALI devices and visa versa. In addition, the DALI gateway constantly monitors the state of lamps and DALI devices and reports their state to the C-Bus network. These messages can be read by C-Gate server application, when integrated as part of an overall building management system, device status may be reported to a central location.

The DALI units are available as passive units only, hence do not source current to the C-Bus network.

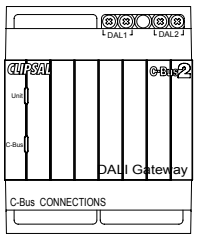
5502DAL

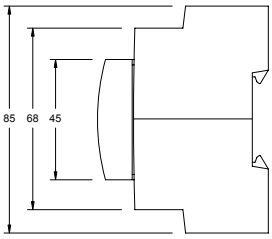
TECHNICAL INFORMATION

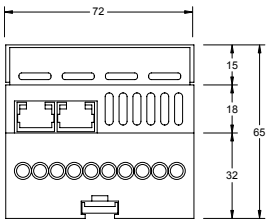
Catalogue Number	**5502DAL**
C-Bus Supply Voltage	**15-36VDC @ 32mA**
Load Rating per Channel	**64 DALI devices**
Control Range	**0 - 100%**
Compatible Loads	**Digital Addressable Lighting Interface (DALI) electronic ballasts and low voltage transformers**
Maximum Number of Units on a Single C-Bus Network	**50**
Status Indicators	**Unit and C-Bus**
Warm Up Time	**5 seconds**
Network Clock	**Software selectable**
Network Burden	**Software selectable**
C-Bus Termination	**2 x RJ45 Socket**
Load Termination	**2 x 1.5mm² or 1 x 2.5mm²**
Operating Temperature Range	**0˚C to 45˚C**
Operating Humidity Range	**0 - 95% RH, non-condensing**

PRODUCT FEATURES

- Provides 2 channels of DALI interface, each channel can connect to 64 DALI devices
- Hard coded mapping between C-Bus group addresses and DALI device addresses
- Stored variables located in non-volatile memory and are retained in case of loss of C-Bus or DALI power
- Monitors and reports lamp and DALI device states
- Designed to fit standard 35mm top hat DIN rail, measures just 8M in size
- Designed to fit into standard electrical switchboards
- CE (European Community) compliant







5502DAL illustrated

CATALOGUE NUMBER	DESCRIPTION
5502DAL	2 Channel DALI Gateway

Software Packages

Software Packages

Please note all C-Bus Software Packages need to be programmed via a PC running the Microsoft Windows® operating system. All Installers will require an appropriate level of training and experience before they can program Clipsal C-Bus software packages to customer requirements. A C-Bus accredited System Integrator or approved C-Bus installer with the appropriate level of accreditation should therefore be used for software commissioning. Please contact your C-Bus specialist or Schneider Electric for further information.

Toolkit Software

The C-Bus Toolkit Software includes the new version of the C-Bus Installation Software, Project Manager, and C-Bus Calculator. The software works under Windows™ 98, ME, 2000 and XP and supports a unique barcode scanning feature. This allows the Installer to scan the C-Bus packaging of each new unit to add the unit to the database. This ensures the correct unit type is added and saves the Installer having to select from a list of unit types. The software prints adhesive labels that can be affixed to building plans. These labels include the Unit Address and the physical location that the unit is to be installed at. Labels are duplicated so that one label can be affixed to the unit and one to the electrical plan for the installation. The labels have barcodes on them so that units can be easily re-identified if required.

Please note: The latest version of the C-Bus Toolkit software is freely downloadable from the CIS website at www.clipsal.com/cis

Version 1 OPC Server Software

A C-Bus OPC Server Version 1 allows multiple software applications to share C-Bus data. The OPC Server will primarily be used to provide an interface between third party Building Management Systems or Process Control Presentation (SCADA) Systems and a Clipsal C-Bus system. Therefore experience in such third party systems is essential for s successful integrated C-Bus solution. The USB Dongle works under Windows® XP Home, XP Professional, Server 2003, Vista Ultimate, Vista Business and Vista Enterprise.

Version 4 Schedule Plus Software

C-Bus Schedule Plus Version 4 includes a number of major features, including enhanced scheduling features, support for monitoring load run times, load power and energy consumed, support for fully customizable multilevel, password protected, access level control, support for sunrise and sunset times, support for daylight saving times, support for 128 bit encrypted secure internet connectivity allowing control and monitoring via any Web Browser. The software also includes a fully featured programmable logic engine. The C-Bus USB Key works under Windows® XP Home, XP Professional, Server 2003, Vista Ultimate, Vista Business and Vista Enterprise.

Version 4 HomeGate Software

C-Bus HomeGate Version 4 includes a number of major features, including support for 128 bit encrypted secure internet connectivity allowing control and monitoring via any Web Browser, irrigation system control feature, enhanced scheduling features, support for sunrise and sunset times, and support for daylight saving times. The software also includes a fully featured programmable logic engine. The C-Bus USB Key works under Windows® XP Home, XP Professional, Server 2003, Vista Ultimate, Vista Business and Vista Enterprise.

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Nationwide support on one number –
call the Customer Information Centre on

0870 608 8 608

Fax 0870 608 8 606

Clipsal
Stafford Park 5, Telford
Shropshire TF3 3BL

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